

FEDERAL COMMUNICATIONS COMMISSION

SPECIAL ACCESS WORKSHOP

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1 P R O C E E D I N G S

2 MR. BAKER: Good afternoon. I want to
3 get started on time because we have a lot to get
4 through. I'm Jonathan Baker. I'm the FCC's chief
5 economist. And I'm delighted to welcome everyone
6 to a staff workshop in the FCC's proposed
7 rulemaking on special access rates for price cap
8 local exchange carriers, which is WC Docket 525.

9 We have invited today four economists
10 who submitted declarations to our record: Two for
11 incumbent local exchange carriers or price cap
12 exchange carriers -- I'll call them ILECs -- and
13 two for the No Choke Points Coalition. We'd like
14 to explore in greater detail their views about the
15 analytical framework that the Commission should
16 employ in this matter. And our goal today is to
17 clarify differences on some economic issues raised
18 in this proceeding that are of particular interest
19 to the FCC staff.

20 So in our limited time we cannot hope to
21 address every important issue that -- or even
22 every important economic issue that's at stake in

1 this proceeding, so please don't assume that if --
2 that issues we haven't raised are unimportant or
3 uninteresting to us. So just for example, we're
4 not planning to ask about -- specifically about
5 the effectiveness of fiber-based co-location
6 proxies and the price flexibility rules or the
7 impact of particular terms and conditions on
8 rates, although I suppose it could come up. But
9 these are important issues that the Commission is
10 concerned with.

11 We're also not intending to prejudge any
12 issue by the way we -- the questions are asked.
13 So if you panelists think the question's based on
14 an implicit assumption that you want to dispute,
15 you're welcome to do that, but then please also
16 answer the question.

17 So with me at the table are four outside
18 economists. I have to find my -- here we go. So
19 for the ILECs, at the far end, we have Dennis
20 Carlton, the Katherine Dusak Miller Professor of
21 Economics at the Booth Graduate School of Business
22 at the University of Chicago and a senior managing

1 director for Compass Lexecon. And also for the
2 ILECs, William Taylor, who's a senior vice
3 president at NERA, an economic consulting firm.

4 The coalition representatives are,
5 first, next to Bill Taylor, Bridger Mitchell,
6 who's a senior consultant at Charles River
7 Associates. And then to my immediate left, Lee
8 Selwyn, who's the president of Economics and
9 Technology, Incorporated.

10 On the FCC side, I am joined by, to my
11 right, Donald Stockdale, who is the deputy chief
12 and the chief economist for the Wireline
13 Competition Bureau, and also Nicholas Alexander,
14 who's an associate bureau chief for the Wireline
15 Competition Bureau.

16 So let me tell you in a moment on the
17 format. We'll begin with five minutes from each
18 of our panelists describing the major themes he'd
19 like to highlight for us, and then I'll start
20 asking question in four major topic areas. I'll
21 try to take no more than 15 minutes asking three
22 questions to one side, and then -- for whoever

1 wishes to respond -- and then give the other side
2 10 minutes to comment.

3 And then from the FCC side here, we'll
4 take no more than 10 minutes in follow-up
5 questions for whoever it makes sense to ask
6 questions to that we want to follow up on. And
7 then we will switch topics, we'll switch who goes
8 first, as between the coalition folks and the ILEC
9 folks.

10 And then at the very end we'll have some
11 time for additional questions about anything that
12 comes up that seems to make sense to ask.

13 We want to get a lot done in a short
14 time, so I will be tough on keeping the segments
15 to the allotted time. We'll be running a light
16 board here for you folks to let everyone know here
17 when time's run out.

18 And for those of you here in our studio
19 audience who have questions, please write them on
20 the index cards, you know, and raise them up and
21 someone will collect them. And if you're in our
22 Internet audience, you can e-mail questions to

1 livequestions@fcc.gov.

2 So let's begin with some initial iThemes
3 from our four participants, and I understand that
4 Bill, we decided, would go first. So, Bill?

5 MR. TAYLOR: Yes, thank you. Yes.
6 Thank you. It's a pleasure to be here. I think a
7 wonderful thing to get all sides together and
8 talking. You may not realize it, but this is the
9 10th year of splicing flexibility. Splicing
10 flexibility is the halfway house between price
11 regulation, as the Commission has always done it,
12 and nondominant and deregulation. So it's not
13 deregulation, it's not a finding of nondominance;
14 it is something partway in between in order to
15 make the markets work.

16 And also, the 20th year of Vice Cap,
17 sort of an anniversary for everybody, and I'll
18 take it to the purpose today is to put together a
19 framework to assess whether the FCC's special
20 access regulation needs to change. The background
21 for this from my perspective is a special access
22 market that appears in broad strokes to be working

1 pretty well. Demand, as all you know, has
2 increased by leaps and bounds; transactions prices
3 have fallen which implies there's a huge expansion
4 in market capacity.

5 There's been additional entry in
6 investment in high capacity services from
7 competitive fiber providers, cable, fixed wireless
8 providers. The old collocation triggers on the
9 books are now more conservative than they were in
10 2001. We have self-supply carriers doing their
11 own, and their volumes of special access don't
12 even enter the market. In pricing flexibility
13 areas, we have entry which indicates that the
14 flexible terms and conditions that ILECs may have
15 are not entirely anti-competitive.

16 We have technical change, the shift to
17 higher capacity, lower cost, OCN services, the
18 shift to Alcoswitch services, to Ethernet. The
19 said transactions prices have fallen for services,
20 for bandwidths across all geographic areas. In
21 this setting, what would be necessary? What data
22 should we look for? What framework should we have

1 that would warrant a change in FCC regulation?

2 A modest proposal, a data-driven
3 quantitative assessment, that is, examine the
4 effects of current regulation to see relationships
5 among prices, competition, terms and conditions,
6 and the triggers.

7 Obtain data on prices, scope of
8 competition in relevant geographic areas looking
9 at MSA threats, wire centers, samples of wire
10 centers.

11 Look at areas with different degrees of
12 competition and across such areas compare prices
13 and measures of competition and other terms and
14 conditions controlling for relative factors such
15 as density, access lines, customer
16 characteristics, and then use statistical analysis
17 to see what you can say about the relationship
18 between prices and measures of competition
19 controlling for other costs or demand-based
20 factors.

21 Use these findings to assess current
22 regulation; examine the range first of competitive

1 measures, quantitative measures that are
2 observable; the number and size of collocations,
3 the one we have today; number of bidders for
4 contracts; number of suppliers within a radius of
5 X to determine where added competition no longer
6 results in lower prices and use those competition
7 measures to assess current triggers or to suggest
8 new ones.

9 Similarly, you can use this data to
10 determine a competitive price benchmark for each
11 area, adjusting prices for other factors which
12 determine costs and demand, and compare estimated
13 competitive priced with actual transactions prices
14 across price cap areas, across pricing flexibility
15 areas, rural areas, urban areas, and see where
16 current regulations may be deficient.

17 Obviously, objective empirical analysis
18 is going to be difficult. The data is notoriously
19 imperfect. You have to have data from everybody,
20 not just from ILECs or from other specific
21 licensed people; measuring terms and conditions
22 for different special access services is

1 difficult. Holding other costs and demand
2 characteristics constant across wire centers is
3 very important and very difficult to do;
4 nonetheless, this is the sort of data- driven
5 approach that I think will tell you how successful
6 our current regulation has been.

7 On the opposite side, there are
8 frameworks that we should avoid: historical market
9 structure? No, simply looking at whether prices
10 are rising or falling doesn't answer the question,
11 whether prices are higher or lower is price cap
12 Phase 1 or Phase 2 MSAs doesn't matter; looking at
13 price-cost comparisons is not a wise one. Price
14 comparisons with other services is not adequate,
15 and looking at price caps based on
16 service-specific TFP growth is a pointless
17 exercise, and let the data speak.

18 MR. BAKER: Thank you. All right, so I
19 think next we have Bridger. Is that -- okay.

20 MR. MITCHELL: Thank you for the
21 opportunity to be here and for moving ahead on the
22 issue of special access. Special access is at the

1 center of the broadband economy. A wide range of
2 industries and organizations depend on special
3 access services to carry on their activities, and
4 they pay too much for these services because there
5 is inadequate competition.

6 In the telecom space, special access
7 revenues are huge. On an annual basis, ILECs'
8 special access revenues are larger, larger than
9 all the switched access plus the entire high-cost
10 universal service fund. The bottom line is that
11 enabling end users and broadband providers to
12 obtain special access at a reasonable price is not
13 only critical to broadband deployment but also to
14 spurring investment and innovation.

15 Unfortunately, the special access
16 regulatory regime appears to be badly broken.
17 I'll explain this in relation to three issues:
18 First, the FCC's price flexibility trigger doesn't
19 accurately predict where competition exists;
20 second, the price gap is too high and is not just
21 and reasonable; and third, ILECs' tariffs include
22 anti-competitive terms and conditions.

1 I'll use the remainder of my opening
2 remarks to very briefly describe the analytic
3 framework that will allow the Commission to
4 investigate and address these problems.

5 The Commission should employ a
6 traditional market power framework as it did in
7 the recent Forbearance Order for Phoenix. The
8 framework has three key components: First, define
9 relevant geographic and product markets; next
10 assess ILECs' market power in those markets, and
11 in order to do this, obtain the data necessary to
12 conduct the analysis. To define special access
13 markets, use the Department of Justice Merger
14 Guidelines criterion, whether a small but
15 significant non-transitory increase in price or
16 snip.

17 This means that the geographic special
18 access market is point to point from a customer's
19 premise to a customer-designated network point,
20 and for customers with mobile locations the
21 customers set up premises in a metropolitan area.

22 And for product markets, it means

1 channel termination products distinguished by
2 bandwidths and protocol, dedicated transport from
3 wire center to wire center, multi-premise
4 termination plus transport service, and Ethernet
5 which is supplied over the same physical transport
6 and termination facilities, but has different
7 employed electronics.

8 Second, assess ILECs' market power, and
9 the Commission would for each product market
10 identify the significant suppliers in the market,
11 and then use five major indicators to assess
12 market power.

13 First, the ILECs' market share and
14 actual comparative supply; second, price to
15 margins as measures of profitability comparing,
16 for example, DS1 and DS3 prices to efficient
17 long-run costs using unbundled network element
18 rates established by the state regulators.

19 Then look at potential entry, the
20 competitors' capacity to provide timely, likely,
21 and sufficient supply response.

22 Fourth, the ILECs' economies of scale

1 and scope, and finally assess ILECs' terms and
2 conditions for those that impede competitive
3 entry.

4 Now to the data. The geographic unit of
5 analysis, I've said, is ultimately the
6 point-to-point market, but it will be necessary to
7 aggregate these geographic markets, for example,
8 using the ILECs' wire center, or, alternatively,
9 the postal ZIP code; obtain data on competitive
10 conditions in a wire center; measure the ILECs'
11 market share for each product; and estimate
12 competitors' potential supply and supply
13 elasticity. Then screen out from the nearly
14 11,000 ILECs' wire centers those where effective
15 competition is unlikely, and from the remaining
16 wire centers those with sufficient potential
17 demands to make entry feasible, draw a
18 representative sample of geographic markets.

19 And finally with these data, assess
20 ILECs' market power in each sample wire center and
21 each sample pair of wire centers, evaluating the
22 five indicators I have summarized.

1 MR. BAKER: Thank you. Dennis?

2 MR. CARLTON: Thank you. Hi, it's a
3 pleasure to be here. Now, let me -- since I'm
4 going second I will try and avoid repetition with
5 what Bill said.

6 There are a few sort of central
7 questions that we're investigating, but there is a
8 threshold question that I wish to point out, and
9 that is whether we should engage in a further
10 investigation about the success of regulation, of
11 the current regulation regarding special access
12 pricing. That is different from the question of
13 given you're going to investigate how well we're
14 going, how would you do it? I simply point out
15 any data-gathering exercise and then subsequent
16 analysis is going to take time and money, and it
17 is a relevant question to decide whether you even
18 want to embark on such an exercise in light of the
19 historical conditions and experience, some of
20 which Bill has mentioned such as -- and although I
21 understand there may be dispute about this --
22 declining prices as well as changed technology.

1 But putting aside what the threshold
2 question whether to proceed or not, how that is
3 answered, let's suppose we have answered the
4 question and say we want to proceed and the
5 question then is how. So the question is, what is
6 the goal that the FCC is trying to achieve? And I
7 think it's easy to say how to implement: It's to
8 develop practical and reasonable approaches to
9 using regulation in combination with competition
10 to constrain prices where market power exists --
11 significant market power exists -- and also trying
12 to have criteria to decide where regulation is not
13 needed.

14 We all know that regulation has
15 imperfections. We also know competition is not
16 perfect, and figuring out when to use each can
17 entail a cost, if you make error. Ideally, the
18 FCC would like to have "competitive prices
19 everywhere," but they have to recognize that a
20 decision either to use regulation or not, or some
21 combination, will inevitably be imperfect. The
22 implementation of any framework is going to be

1 complicated involving the use of imperfect data
2 that never exactly capture what you want to
3 measure. And even the benchmarking approach,
4 which I think is a desirable one, we shouldn't
5 fool ourselves, will be difficult or could be
6 difficult to implement.

7 And, finally, I wish to point out the
8 possibility that there are sometimes asymmetric
9 risks to regulation. If you regulate a price too
10 low, you cut investment, you cut alternative
11 arrivals from investing in an area, you decrease
12 the incentive of the ILECs to invest. In
13 contrast, if you set prices too high, although
14 undesirable initially, that can induce people to
15 invest.

16 Well, what sort of data should be
17 gathered? Some people have touched on this
18 question. It's clear that the relationship we're
19 interested in is the relationship between price
20 and competition, so obviously you have to gather
21 data on each. In gathering data on prices,
22 economists know that it's not list prices, it's

1 transaction prices that matter.

2 In figuring out how much competition
3 there is in an area, economists know that it's not
4 the number of people who are currently supplying
5 any area, but it's also the number of people who
6 have the capability of supplying an area.

7 Moreover, even if one building has been served, is
8 served by a one supplier, that doesn't mean that
9 that building was deprived of the benefits of
10 competition. There might have been several people
11 ex-ante who were bidding for the right to supply
12 that building.

13 So gathering data on transaction prices,
14 actual competition in an area as well as potential
15 competition is key.

16 Are there other approaches other than
17 the benchmarking approach that Bill mentioned? I
18 think the benchmarking approach -- recognizing,
19 though, they have -- that it had difficulties and
20 complications -- it's probably the most promising
21 one. I think there are others that have been
22 suggested that are much less promising.

1 For example, suppose you look at the
2 price-costs margin as an indicator of market
3 power. First, that's hard to do, hard to estimate
4 marginal costs; second -- because you'll be using
5 typically standard accounting data -- second,
6 especially in this industry, you're likely to find
7 [price in excess of marginal cost in many
8 instances. Does that mean there's market power or
9 impermissible market power? Just remember, if you
10 find market power for one of the ILECs, you're
11 likely to find it for one of the rivals who are
12 complaining. So you should take that into
13 account, and that should give you some skepticism
14 about its value.

15 What about using the Merger Guidelines?
16 Well, the Merger Guidelines are set up to
17 determine whether after a merger prices are going
18 to go up. Even there, market definition is
19 regarded as very crude a beginning, but the FCC is
20 not interested in answering the question that the
21 Merger Guidelines answer: Will price go up? The
22 FCC is interested in answering this different

1 question, a competition such that they constrain
2 prices in a particular area as much as in other
3 areas that are recognized to be competitive.

4 So my sense is these alternative
5 approaches will just fail. The Merger Guidelines
6 are not set up, as I explained in an article I
7 wrote in 2007 to address the question: Is the
8 current price above competitive levels? Instead
9 it's set up to answer a question about mergers, a
10 SNIP test, and I raised the price by 5 percent
11 above current levels is not the right test, and,
12 therefore, my own view is that the FCC should
13 understand a more detailed gathering of the data
14 is important to relate price to concentration and
15 measures of competition, and to decide whether in
16 particular areas, using such studies as a
17 benchmark of a particular area exceed reasonable
18 pricing.

19 Thank you.

20 MR. BAKER: Now, final, Lee?

21 MR. SELWYN: Thank you. I appreciate
22 the opportunity to be here and to discuss these

1 issues with you. I want to say first at the
2 outset, I fully support the analytical framework
3 that Bridger described. I'm not going to spend
4 any time on it right now.

5 I want to address specific aspects of
6 the issues that I think the Commission needs to be
7 focusing, and those relate to competition,
8 triggers, and price caps. And my selection of
9 these three is only because of the limited time
10 that I have at this point.

11 Let me first talk about competition.
12 The presence of some competition does not a
13 competitive market make. What makes a market
14 competitive -- and I'm speaking here of
15 effectively competitive -- is that the competition
16 that exists is sufficient to constrain the
17 dominant carriers from raising prices to the point
18 of producing excessive profits and excessive price
19 levels in an economic sense.

20 What conditions will need to prevail in
21 order for a market to be competitive? First,
22 competitiveness will need to confront a relatively

1 high supplier elasticity; they will need the
2 ability to respond quickly to a significant price
3 increase or to a sustained level of high prices.

4 Second, that the price-cost relationship
5 cannot be maintained at excessive levels by the
6 incumbent because, if they are and if a competitor
7 confronts realistic opportunities to expand
8 capacity, we would expect those to drop. So if we
9 can examine supplier elasticities and price-cost
10 relationships, we can learn a lot about whether
11 the market is or is not effectively competitive.

12 With respect to triggers, the problem
13 with triggers as they have been adopted in the
14 case of price inflexibility, is that there is no
15 particular relationship between the triggers
16 adopted by the FCC and the presence of an
17 effectively competitive market. In fact, the
18 triggers themselves really have very little to do
19 with competition. Indeed, they almost are inverse
20 to competition.

21 The presence of a collocation
22 arrangement for a competitor is indicative not

1 that the competitor has placed its own facilities
2 into buildings but rather that it has dependence
3 upon the incumbent's facility. A competitor would
4 not run its own facility into a collocation, but
5 it would run special access services that it
6 leases from the incumbent into the collocation to
7 ultimately interconnect it with its own network.

8 The Commission based its analysis on its
9 selection of the triggers on some sort of
10 predictive judgment that did not quantitatively
11 relate or test the relationship between the
12 presence of the necessary threshold level of
13 collocations and ability of the market to develop
14 in a competitive manner as I've described it.
15 Moreover, the Commission never looked back even
16 shortly after the triggers were nominally
17 satisfied in the pricing flexibility case. The
18 number of collocations experienced a significant
19 drop-off, and we will provide some data in the
20 record to support that statement, and I'll talk
21 about it more later.

22 Finally, I want to talk briefly about

1 price caps. Price caps was a very laudable
2 approach to regulation because it was intended to
3 provide the dominant providers, the dominant
4 carriers with incentive to exceed industry
5 productivity growth trends, and to the extent that
6 they could do that, they could retain a portion of
7 those gains for a limited period of time.

8 They were also, however, expected to
9 flow through some of those gains to consumers and
10 to the extent that they actually exceeded it. The
11 Commission intended to periodically examine the
12 price cap system to see if it was specified
13 correctly and, if not, to take corrective measures
14 and did so several times during the 1990s.

15 In competitive markets, it is
16 unrealistic for any one firm to expect to be able
17 to retain indefinitely the benefits of an
18 efficiency gain in the form of additional profits.
19 In fact, in competitive markets, what happens is
20 that an efficiency gain by one firm will
21 ultimately be mimicked by its rivals, and that
22 will then cause the excess profit to be

1 short-lived.

2 A periodic price cap review essentially
3 accomplishes this competitive outcome. I don't
4 think that the supporters of price caps 20 years
5 ago when the plan was originally conceived would
6 have expected the present arrangement where most
7 of these features have been eliminated;
8 essentially, it's basically been let loose without
9 any examination review or safeguards.

10 MR. BAKER: Thanks to all of you for
11 starting us off in a very interesting way.

12 We want now to talk about four different
13 areas, and the first is of analytical framework.
14 We'll start out general, and we'll get into a more
15 in-depth theory discussion in some of the later
16 areas. And the Commission's rules, you know,
17 about price caps and pricing flexibility, and
18 volume in terms of counts, all the things we have
19 in our rules for special access services, are
20 intended to ensure that the ILEC sets the special
21 access rates and terms and conditions that are
22 just and reasonable and not unreasonably

1 discriminatory. And what we're talking about is
2 analytical framework for thinking about that.

3 Now I guess I want to start with Bridger
4 and Lee. And what I'd like to do is take off from
5 something that Dennis said about the imperfect
6 data that we would have in any approach that we
7 may apply and ask you to defend the analytical
8 framework you all proposed in a little more
9 detail, but to explain sort of how it -- why it's
10 the best approach, you think, taking into account
11 both are desired to avoid mistaken inferences --
12 and we don't want to regulate when we shouldn't or
13 fail to when we should -- but also the
14 administrative practicality.

15 And so this is really a chance to
16 reflect on what Dennis and Bill had to say as well
17 as explain a little more the views the two of you
18 had.

19 And, Bridger, however you'd like to
20 divide up the time, that'd be great.

21 MR. MITCHELL: Let me take a stab, and
22 let Lee jump in.

1 Our view of the basis for an analytic
2 framework is that whether I like rates and I like
3 terms and conditions are just and reasonable needs
4 to be tested against what a competitive market
5 would produce. And since we don't have a
6 competitive market now and special access, we
7 don't have the opportunity to observe a
8 competitive price, and there's no way to make that
9 comparison directly. So that does get us into,
10 inevitably, collecting data and analyzing market
11 power. And, as I've said, the traditionally
12 market power analysis is the appropriate framework
13 for doing that, and it's one the Commission has
14 recently applied in Phoenix.

15 Now, that's where the Department of
16 Justice SNIP test really is relevant because it
17 helps to clearly define that was separate
18 geographic and separate product markets and which
19 groups of products belong in a single market.
20 Whether it's a merger or whether it's regulation,
21 the definition of markets comes out of that.

22 Now, as far as data collection is

1 concerned, there is a need, of course, to be
2 practical because the market definition would tell
3 us that geographic markets are individual premises
4 or buildings or sets of buildings where customers
5 need connectivity between them, and doing that
6 analysis is potentially possible for one or two, a
7 small number of urban areas, but as a nationwide
8 approach it needs to be boiled down to something
9 more manageable; and yet, at the same time
10 conditions are highly dispersed across --
11 disparate across metropolitan areas. For example,
12 conditions here in downtown Washington are very
13 different from West Virginia, and yet those
14 geographic areas all fall within the metropolitan
15 statistical area.

16 So a wire center approach or possibly a
17 ZIP code point of aggregation is, we suggest, both
18 relevant and practical. Much of the ILEC data
19 organized by wire center, so that should not prove
20 to be a huge barrier in terms of collecting data
21 from the ILECs.

22 MR. BAKER: And the -- if we attempt to

1 measure market power, are we required to think
2 about market power the way the horizontal Merger
3 Guidelines do in the sense -- which is essentially
4 will the conduct in the future allow additional
5 exercise in market power? Or can we analyze
6 market power as it is today by looking at market
7 structure? And I take that to be some of the
8 points that the ILECs are making.

9 Lee, jump in.

10 MR. SELWYN: Sure. You know, obviously,
11 we're concerned about the future, but, you know,
12 the past is indicative of the future. We have
13 been looking at a condition in this marketplace
14 for, I guess Bill said, reminded us it's 10 years
15 since pricing flex went in, and it's about 8 years
16 since the old AT&T filed a petition for a special
17 access rulemaking along with the ad hoc committee
18 which supported it shortly thereafter. And during
19 this entire period of time, we've seen very, very
20 little change in the total number of competitive
21 buildings in -- nationwide.

22 And, in fact, there's been some

1 retrenchment because of the mergers of AT&T and
2 FBC, and Verizon and MCI. A number of companies
3 have gone out of business, collocations have gone
4 down. So it seems to me that, you know, it's
5 almost a cop-out to say let's ignore the past and
6 worry about the future when we can learn so much
7 about the future from the past. There is no a
8 priori reason at this point to expect this
9 condition to change materially anytime soon. And
10 we have 10 years' worth of experience, and in
11 those 10 years we have not seen the kind of
12 competitive entry that we would expect.

13 So, you know, what does the market power
14 approach teach us? It teaches us something about
15 the condition in the marketplace; it teaches us
16 something about whether or not competitors have
17 been successful in constraining ILEC prices. If
18 competitors have not been successful constraining
19 ILEC prices, that tells us this is not a
20 competitive market. We don't need a lot of the
21 head count type of details that the ILECs are
22 demanding because, quite frankly, even if we found

1 out that the number of lit buildings instead of
2 being in the low single-digit range was in the
3 mid-single-digit range, what would you do with
4 that information? You'd still ultimately want to
5 find out if that is a level of entry that's
6 sufficient to constrain price, and that's the only
7 question that needs to be asked.

8 Market power is a good indicia of the
9 success of competition. And these kind of head
10 count approaches that the ILECs have been
11 supporting and claiming for a long time if you can
12 do it one place, you can do it anywhere, that's
13 all well in theory, but as a practical matter,
14 CLECs can front very low supply elasticity, they
15 cannot respond quickly, and the ILECs have been
16 responding to that condition in their pricing.

17 MR. BAKER: There are a couple things
18 that confuse me in your answer. So one of them
19 is, are you saying that because we don't see any
20 -- much actual entry, therefore, there can't be
21 potential competition constraining prices?

22 MR. SELWYN: No, I'm not -- I'm saying

1 that we've been hearing about potential
2 competition for a long time. It hasn't happened.
3 I mean, at some point one has to come to the
4 conclusion that, gee, maybe these predictions have
5 to be revisited. There's always the potential for
6 something to happen, but I've yet to see any solid
7 explanation for why conditions that have prevailed
8 for a decade would undergo a material and radical
9 change any time soon.

10 MR. BAKER: And just to tie this down,
11 in theory one might say, well, you haven't seen
12 any actual competition because the prices being
13 charged are competitive, that potential
14 competition is actually constraining the prices to
15 be competitive so there's no room for the entrants
16 to come in and make money. And I take it you
17 don't believe that, so why not?

18 MR. SELWYN: Well, that's sort of
19 circular. I mean the notion that we should be --
20 and if we start out with the assumption that
21 prices are competitive, you know, then we can
22 prove all sorts of good things. The point is

1 that, how do you know that prices are competitive?

2 Well, that begs the whole question that

3 we're addressing here. If you're trying to look

4 at conditions in the marketplace, if we -- it

5 seems to be the first question is all price is

6 competitive. Well, how do you determine that?

7 Well, you have antitrust type of tests:

8 Profitability tests, SNIP type tests, supply

9 response types of tests. There are any number of

10 indicia that would lead one to draw conclusions

11 about whether or not existing price levels are

12 competitive.

13 The point is that -- and we pointed this

14 out in a declaration that I submitted earlier this

15 year -- that if anything the availability of

16 special access services to complement owned

17 facilities and with building by a competitor

18 actually increases its ability to compete and its

19 ability to invest, so it's just the opposite: If

20 you make special access so prohibitively

21 expensive, then the value of any one firm's own

22 network of lit buildings is constrained to be so

1 small that it has difficulty competing. It needs
2 to complement that in order to provide the same
3 level of connectivity that an ILEC provides. If
4 it can't do that, it can't compete.

5 MR. BAKER: And it changes the question
6 slightly. What do you make of the suggestion that
7 we can't use the Merger Guidelines approach to
8 analyzing market power because it's asking the
9 question -- I don't think you directly answered
10 this -- it's asking the question will prices go up
11 after the merger when the question we wanted to
12 ask right now is more akin to a question one might
13 ask, you know, in a retrospective analysis like
14 one does in (inaudible) cases, had placed already
15 increased to the level above the competitive
16 level.

17 So, do you have any views on that?

18 MR. MITCHELL: Yeah, well, actually the
19 SNIP should be applied at the competitive level,
20 not at the monopolist price level. So that
21 already needs to be reset down to what would be a
22 competitive level in terms of defining the market

1 and asking whether consumers would either leave
2 off purchasing or would switch to another
3 supplier, to a different product.

4 So, yes, I think the basic outline of
5 the merging guidelines framework is applicable.

6 MR. BAKER: But then it's got a --

7 MR. SELWYN: Let me just -- let me just
8 -- you know, the point is you're absolutely right.
9 The Merger Guidelines raise these questions in the
10 context of evaluating mergers. That doesn't mean
11 that these questions aren't also valid for other
12 purposes. They are valid for evaluating mergers;
13 they are also valid for evaluating market power,
14 as a general matter.

15 MR. BAKER: And I've got a follow-up
16 with Bridger on if the -- if we have to apply the
17 SNIP test at the competitive level, how do we know
18 what the competitive level is independent of doing
19 the kind of price analysis or something like that,
20 that Bill and Dennis are proposing? Or is that
21 what we have to do?

22 MR. MITCHELL: You have to use something

1 like the data that you have available, and we
2 don't yet have the competitive price, so it's not
3 possible to fully carrier that out. But even at
4 the higher level of current market prices, you can
5 ask whether customers have substitutes sufficient
6 to cause them to leave the market and get to a
7 larger definition of product.

8 MR. BAKER: So essentially you're
9 saying, in effect, we're not -- I'm going to put
10 -- how do you respond to this? This is -- I'm
11 going to say something that isn't quite safe, but
12 that the -- one objection might, to using the SNIP
13 test in this current setting might be the claim is
14 that the firms are already exercising market
15 power. We might be subject to a cellophane
16 fallacy, and are you all saying that, well, if
17 that were the case, meaning that at the high price
18 we already have a great deal of substitution from
19 rivals, especially going up to the place where we
20 see competition.

21 But Lee was emphasizing, well, no, we
22 haven't actually seen entry or new competition in

1 the CLECs. So is that -- that we can't -- we're
2 not in a situation where price has risen above and
3 -- I mean, I'm sorry, we're misled by using the
4 Merger Guidelines approach or because the danger
5 is that we might -- were we to apply a Merger
6 Guidelines approach to market definition, we would
7 be including competition that constrains now, but
8 didn't at the earlier competitive price. And is
9 your position that we avoid that danger by virtue
10 of the fact that we see that there hadn't been
11 much entry?

12 I know it's kind of convoluted, but I
13 think you follow what I was asking.

14 MR. MITCHELL: Well, starting with the
15 prices and the observed consumer behavior, we can
16 get some handle on how much demand elasticity
17 there is, either for on elasticity or substitution
18 to other products. And I would agree that,
19 ideally, you would ask that question again at a
20 lower price, and if you could determine it at the
21 competitive price. But the data we have should at
22 least provide a strong basis for defining the

1 markets now.

2 MR. BAKER: Maybe we'll switch over now
3 to Bill and Dennis for you to comment on both, you
4 know, what Bridger and Lee had to say, but don't
5 forget my initial question about what's practical.
6 And I'd be particularly interested in hearing
7 about how you think we can get done Bill's data,
8 you know, price analysis, you know, in our
9 lifetime.

10 MR. CARLTON: So let me respond to a --
11 let me first respond to what Bridger and Lee were
12 saying about the Merger Guidelines, and then try
13 and directly answer your question.

14 I think your questions are exactly on
15 point that about how difficult it is to use the
16 Merger Guidelines in a Section 2 case. The Merger
17 Guidelines weren't designed to be used in a
18 Section 2 case to ask the question of prices above
19 the competitive level because, if you think about
20 it for one moment, if you know the competitive
21 level, you can answer the question immediately.
22 You don't need to do a market share analysis to

1 say, oh, I'll do a SNIP test, can I raise the
2 price by, say, 5 percent above this number that I
3 know, and what's the market share? And if the
4 market share is large, then I'll conclude that
5 prices are above the competitive level. If you
6 already know what the competitive level is, you're
7 done.

8 So the difficulty of using the Merger
9 Guidelines in a Section 2 case is precisely that
10 you don't know the competitive level. And as I
11 understand one of the central inquiries here, it's
12 to ask if I'm in some region and I'm not sure
13 whether it's competitive or not, what is the
14 competitive level? So the Merger Guidelines, just
15 as a logical matter, can't answer that question.
16 To calculate the market shares you need to know
17 what the competitive price is.

18 So what's the way to proceed? The way
19 to proceed is really practical. The use of market
20 shares are useful only if they are good predictors
21 of price in some way. That's why we calculate
22 market shares. And let me emphasize, even in the

1 Merger Guidelines at the Department of Justice,
2 people understand market shares are just the first
3 place to begin. There's where you begin the
4 analysis, you don't end the analysis, a very crude
5 analysis.

6 What you then go on -- and this is what
7 fits into what Bill is saying -- if you want to
8 gather data on prices, and by that would be
9 transaction prices, and then compare it to, you
10 know, holding constant, you know, conditions --
11 I'll come back to that in a moment -- to the
12 amount of competition, you have to measure the
13 amount of competition in some way. And you can
14 measure that by how many people are serving a
15 building, how many people are close to serving the
16 building, how many bid on serving the building.
17 And if you don't get that data, if you don't have
18 that other data, there's no way you can answer the
19 question of what the right definition of a market
20 is.

21 And what do I mean by "right definition
22 of a market?" I don't think markets can be either

1 precisely or, you know, precisely defined very
2 carefully, you know, delineating a sharp line
3 around products. Market definitions are useful
4 when, when you calculate their market shares
5 they're somehow predictive when you look at a data
6 set. So when you look at a data set, is it the
7 case that in the areas where there's less
8 competition, however I'm measuring it -- maybe by
9 market shares, maybe by number of people, maybe by
10 size of people, maybe by identity of people -- by
11 "people" I mean suppliers -- is there some
12 prediction between those measures of presence and
13 price? If there is, then that's what I'm looking
14 for; that's what the FCC would be looking for.

15 Maybe there are some market shares that
16 work better than others when you define markets in
17 different ways. You can't -- and since one of the
18 central questions here is going to be -- and I
19 agree an interesting question: Does potential
20 competition matter? How much and let's suppose --
21 I agree that the dispute about there may be --
22 well be a dispute about that. You should test

1 that, so you got to get NS information about that.

2 So then that leads back to the harder
3 question. The hard question is -- and it's useful
4 I think to separate the data-gathering and
5 relationship of price to concentration exercise
6 from the exercise -- what, then, should the FCC
7 do? You can gather a very detailed database that
8 you then can do these analyses on. And I'll just
9 put as a footnote, endogeneity of participation is
10 something, obviously, econometrically, you'd had
11 to worry about. But putting aside that, once
12 you've done this very detailed analysis, and, as
13 Bill said, adjusting for other factors, that's how
14 to do cost factors density, and in an industry
15 like this other demand services, okay, you'd have
16 to adjust for.

17 But let's suppose you've done all that
18 and suppose you're pretty -- you'd think you have
19 a good model that predicts the competitive price
20 after you adjust for everything, then what should
21 the FCC do? It seems to me for practicality
22 you're going to have to say to yourself: Well,

1 either I'm going to have to construct this
2 database -- which I assume would be burdensome --
3 for every time I had a hearing, or maybe there is
4 some shortcut. Let me now check the data I have
5 to see if I could do a shortcut. I understand if
6 I had all the data what I'd be doing, what
7 triggers I would use, what -- how I would make
8 predictions. Is there anything I can do and not
9 do -- make too many errors?

10 For example, if I just looked at the
11 number of people who would bid for a building, or
12 if I looked at how many miles, how close someone
13 is to a building, some of those good enough
14 proxies that they allow me to substitute for the
15 full analysis, because, obviously, at the end I
16 understand it's going to be costly for both the
17 parties involved in a proceedings of the FCC.

18 MR. BAKER: Let me come back to the
19 market definition where you started and -- because
20 I wonder whether your argument really goes too
21 far, at least -- I don't -- maybe you think this,
22 but the way I heard it, it comes close to saying

1 we can never define markets in monopolization
2 cases, you know, independent of our communications
3 role here where the market power was
4 retrospective; that, and yet in those settings, we
5 do conceptually something that some people think
6 might work is to think not -- is to reverse the
7 question of the Merger Guidelines and ask if price
8 were to fall a small amount, would the -- you
9 know, how will the buyers respond and how --
10 rather than if prices were to arise a small
11 amount.

12 And so, I guess I should ask, do you
13 agree that we can do market definition in an
14 operation settings, and, if so, how do you do it?

15 MR. CARLTON: Got it. One, that's a
16 very good question. Two, that's what I talk about
17 in my article in Competition Policy International,
18 and I do explain that it's extremely difficult to
19 apply an analytic framework like the Merger
20 Guidelines to do it precisely because you have to
21 raise -- the SNIP test would be above the
22 competitive price, which you don't know. And then

1 you're involved with circular logic.

2 So then what do you do? It seems to me
3 the best thing you can do is try and understand
4 who a supplier is who you think have similar
5 costs, or perhaps do, define them as possible
6 markets and calculate market shares, but then --
7 and this is the key thing -- you have to remember
8 what we are using market shares for, and if they
9 have some predictability as to the competitive
10 consequences of either a merger or higher
11 concentration in one area than another. And it's
12 the econometric confirmation, quantitative
13 confirmation that you'd need.

14 And if you do it quantitatively, that's
15 great. If you can -- sometimes you may have to
16 rely on what your clients tell you if you, in the
17 absence of data -- but that's the way we typically
18 do market definition. There's nobody who applies
19 technically the analytic procedures of the Merger
20 Guidelines in a Section 2 case.

21 Now, I -- in the article I won't go
22 through here, there are some exceptions you can

1 give if you look historically over time in
2 precisely the cases you were talking about, if you
3 observe sometime cases where prices fall. But, by
4 and large, it's very hard to do.

5 MR. BAKER: So then my final question
6 for you. I'm just following up on this -- the --
7 your proposal is, essentially, we test how well
8 the market shares, the candidate market shares
9 work, you know, in predicting prices.

10 Now, you and I both know that often the
11 data aren't informative one way or the other, that
12 the (inaudible) can be large; that if you were to
13 attempt to measure that kind of relationship, you
14 know, you might say I can't tell. So at that
15 point don't you have to rely on relationships
16 between price and market shares that you know
17 about from other industries, perhaps, or in
18 general? Or are you left with do nothing because
19 you can't -- you can't -- you can't know how that
20 -- how the relationship works in this particular
21 industry?

22 MR. CARLTON: You're in a tough

1 situation if you're in a position in which in your
2 industry you can't find a relationship between
3 price and any other candidate markets. Then what
4 you have to go on are either what your clients are
5 telling you or, as you say, relations you see from
6 other industries. The difficulty with other
7 industries is they better be somewhat close to
8 this one, otherwise know that the price
9 concentration rate relationship differs enormously
10 across industries because of the characteristics
11 of those industries.

12 But, certainly, one industry you'd want
13 to -- if you do take another industry, it has to
14 be an industry in which there are large fixed
15 costs, in which there's a lot of technological
16 change that's unpredictable, and in which there's
17 a lot of uncertainty about how the market is
18 evolving. But I think the further and further
19 away you'd get from your particular industry, the
20 more error-prone it's likely to be, and perhaps
21 you should say, what is it about this industry?
22 Maybe these candidate markets make no sense at all

1 if I can't find anything in the data. Maybe I'm
2 doing something --

3 MR. BAKER: (inaudible) was that you
4 couldn't tell one way or the other. It wasn't
5 like it was precisely estimated at zero. It was
6 imprecisely estimated (inaudible).

7 MR. CARLTON: Yeah. If you have no
8 idea, you're in a tough situation.

9 MR. BAKER: All right. Let me turn now
10 to my colleagues and see how they'd like to
11 continue.

12 MR. STOCKDALE: Dr. Carlton, could you
13 explain a bit for me, you explained why the Merger
14 Guidelines were inappropriate to apply in a case
15 in which you're -- a Section 2 case, as you
16 described it. But even in Section 2 cases, you do
17 have to, in some sense, sort of define the
18 geographic area within which you're going to
19 analyze whether a firm has market power. And it
20 isn't clear to me exactly what you believe the
21 appropriate geographic area is, or how we would
22 determine the appropriate geographic area.

1 Dr. Mitchell suggested it was
2 point-to-point markets. And what is your view?

3 MR. CARLTON: That's a good question. I
4 don't mean to suggest that the analytic thinking
5 in the Merger Guidelines are inappropriate in any
6 way. It's just in many cases they are hard to
7 implement empirically. But a specific answer to
8 your question would be let's suppose we've engaged
9 in this large data-gathering ethics by their
10 transaction prices, and I have knowledge about
11 suppliers, not only actually suppliers but the
12 location of potential suppliers. Well, your
13 question is really asking me: Dennis, how -- and
14 please call me Dennis -- actually, when I'm on up
15 here, I don't know, I've called these people by
16 their first names, I don't mean any disrespect.
17 So you call me Dennis, and since we know each
18 other, that's fine.

19 MR. BAKER: I apologize if I've insulted
20 anyone, too, but we can all be informal here.

21 MR. CARLTON: Oh, so the precise answer
22 to your question would -- it was you were asking

1 to point for the right number, or .6 or a mile, the
2 short answer would be I don't know without
3 investigating the data. What I would do, though,
4 would be, to answer your question, is exactly to
5 look at how transaction prices differ depending
6 upon the location of potential suppliers by
7 distance. And that would allow me to have a
8 better way of answering your question than, you
9 know, off the top of my head how far do I think
10 you have to be. And that's how I think you would
11 do it quantitatively.

12 And notice that that doesn't really have
13 you doing these experiments of the SNIP test over
14 the competitive price, which you don't really
15 know. In other words, the beauty of having price
16 data and, you know, candidate markets, and in this
17 case geographic markets is you let the data try
18 and tell you the answer, you know, subject to what
19 John said that, you know, this data doesn't tell
20 you the answer. But if you have the ability to
21 use data, I would think that if there is clear
22 answer, it will come through in the data.

1 MR. STOCKDALE: And, Dr. Taylor,
2 following up on Dr. Carlton's analysis where I
3 have been told, and I may be incorrect about this,
4 that in many cases incumbents sell special access
5 services under volume and term discounts or under
6 contract tariffs. And I believe you in your
7 declaration cited to the fact that Verizon sells
8 90 percent of its special access services under
9 those arrangements.

10 And my understanding is that those
11 arrangements are either set at a study area basis
12 or an MS -- in the case of volume and term
13 discounts are possibly broader -- or in an MSA
14 basis. So if there is variation in the level of
15 competition when the MSA, how do we sort of track
16 particular transaction prices to localities?

17 MR. TAYLOR: Well, I think the direct
18 answer for it is that you can't because -- that
19 is, you can't link a transaction price for a
20 contract network to a locality. Networks have
21 many localities. I mean, I would, if I were ILEC,
22 I would cut you a contract for dealing with all of

1 your in-points that you are interested in. Some
2 of them may be in price cap territory; some of
3 them may be in Phase 1 and Phase 2. Many of them
4 will be outside of my territory where I served,
5 and I will have to implement them using something
6 else. So the short answer is there isn't a
7 one-to-one correspondence between contracts and
8 any given location.

9 The second question that you raised was
10 sort of how local are contract and discount
11 prices. My understanding -- and I'm sure it
12 differs by carrier -- at least for Verizon, they
13 tend to be national and/or company footprint.
14 That is, the standard discounts that Verizon makes
15 off of its tariff rates are generally national or
16 total footprint, not necessarily -- they're
17 certainly not wire center by wire center.

18 MR. STOCKDALE: And if that's the case,
19 then how do we sort of try to connect transaction
20 prices with sort of the number of competitors or
21 market shares, however those are defined?

22 MR. TAYLOR: Well, again, it's

1 difficult. What you do, I guess, is you look at
2 prices as they are, the discounted transaction
3 prices that you actually see that are being
4 charged in a given wire center. So part of a
5 contract would be a 10 term in a given wire
6 center. Unfortunately, it doesn't have a unique
7 price attached to it, generally. But, wait now,
8 there's a discount coming off of tariff rates, so
9 I guess it probably does.

10 So you can associate a price even for a
11 contracted network, a piece of it, with a given
12 wire center and add them up over all of the
13 service that takes place in the wire center. And
14 you can produce something that's related to a
15 wire-center-specific average discount or average
16 price, I think. It's very difficult simply
17 because the contracts are not only across
18 different geographic areas, but they're also
19 across different services. I mean, some contracts
20 call for both 10 terms in transport; some just 10
21 terms or just transport.

22 MR. STOCKDALE: Dr. Mitchell or Selwyn,

1 any thought?

2 MR. MITCHELL: No.

3 MR. SELWYN: I think we need to focus on
4 the fact that we're dealing with networks and that
5 what the customer is buying is connectivity. So
6 we're looking at -- we need to look at the market
7 at an individual building level because if the
8 competitor is not in a building, it's unlikely
9 that the customer is going to relocate merely to
10 be able to take service from the competitor.

11 But, you know, Bill put his finger on,
12 you know, a key problem. The Verizon and AT&T
13 have enormous on-net footprints, and they're in a
14 position to leverage that footprint so as to
15 exclude competitors. He suggested, for example,
16 that Verizon might have different pricing for an
17 on-net deal than a nationwide deal that includes
18 off-net, where Verizon, itself, would be
19 confronted with special access.

20 Verizon is in a position to make that
21 kind of a deal because Verizon has ubiquitous
22 presence within its footprint. There is no CLEC

1 in the market that is in a comparable position.

2 If you can find a CLEC to making deals only within
3 it's own lit-building footprint, it will have very
4 few customers. Without the ability to supplement
5 that and extend it, the CLEC is essentially not in
6 a position to compete.

7 So the kind of analysis that is being
8 suggested, it seems to me is really ignoring the
9 network character of this market.

10 MR. BAKER: All right, I'd like to turn
11 now to our next topic which follows on some of
12 what Lee discussed about potential competition, so
13 what I think one of the definitions from the ILECs
14 called "intramodal competition?" And so I want to
15 start with Dennis or Bill and ask you about that.

16 In particular, we've been told that a
17 number of factors, if you think about the
18 possibility that competition from CLECs in serving
19 buildings, we've been told that a number of
20 factors by limit the significance of that
21 potential competition, we've heard about the
22 building's distance from the CLECs' fiber, the

1 need for access to streets and poles and
2 buildings, the magnitude of the potential revenue
3 from customers in a particular building, the
4 CLECs' potential problem in assembling customers
5 within a building to obtain scale economies or
6 when potential customers have long-term contracts
7 with ILECs that have purchase commitment levels or
8 termination penalties, and the interest that the
9 customers have in contracting to service multiple
10 locations, some of which might not be near to the
11 facilities that the CLEC has.

12 So how should the Commission evaluate
13 the possible significance of these factors that
14 might limit the ability of the CLECs to provide
15 potential competition for the ILECs?

16 MR. TAYLOR: Well, I think the basic
17 answer is to let the data tell you; that is, we
18 may be asking too much of it. There may not be
19 enough variation across buildings or across wire
20 centers to fully answer the question, but to be
21 simplistic, if you find that a building in a given
22 location where there's only one, only the ILEC to

1 date, but there are three carriers who bid to
2 supply that building, and there are five other
3 carriers that have networks within one, two,
4 three, four, and five miles of that building, and
5 we had a rich enough data set that you could say,
6 well, for buildings like that here's what the
7 price came out. For buildings where there were
8 only three such competitors, the price is a little
9 bit higher, holding everything else constant.

10 And that's the kind of teasing out of
11 the data that you would ask, empirically, what is
12 going on rather than put of the armchair
13 theorizing that we sometimes do, they sometimes
14 do, and you sometimes do, as to looking at what
15 these characteristics are and qualitatively
16 saying, well, we think that's important and,
17 therefore, we're not going to consider networks
18 within 1,000 feet of a building to be "in the
19 market."

20 MR. BAKER: Now, why would you privilege
21 quantitative analysis based on data over
22 qualitative analysis based, you know, on other

1 information? I mean, if I'm trying to understand,
2 let's say, you know, what the sellers might do,
3 you know, I could do the kind of study described,
4 but I might also want to rely on or what to look
5 at engineering studies of costs or, you know, or
6 what they tell me, or, you know, so why just
7 simply let's look to data?

8 MR. TAYLOR: Well, I think the reason is
9 go back to the philosophy of price flexibility to
10 begin with. Back in the last century, when we did
11 this, the story was we can't do a market-power
12 test with all of the market share price elasticity
13 with the data that we have for every market that
14 we think is important because if we did that or
15 tried to do that, one, we wouldn't get a specific
16 answer; we would get, you know, it feels like
17 this, it feels like that. And, number two, by the
18 time we got it, conditions would have changed, and
19 we'd have to do it again.

20 And that is why, as I interpret history,
21 the Commission came up with the trigger, trigger
22 being of all whatever else it is, it is

1 quantitative. I mean you can tell, and there's
2 almost no disagreement, when an ILEC files for
3 pricing flexibility, you know, you count noses and
4 there's no ambiguity.

5 So there's a great advantage if you can
6 find a quantitative aspect like a trigger if you
7 can then show, as Dennis and I have been arguing,
8 that that trigger is highly associated with price
9 holding everything else constant.

10 MR. BAKER: So I think what you're
11 saying is that we like quantitative approaches to
12 measuring the state or significance of potential
13 competition because that helps us design rules.

14 But if the question is not how do we
15 design rules but just how do we measure potential
16 competition, are you agreeing or disagreeing that
17 qualitative information can be valuable?

18 MR. TAYLOR: I think qualitative
19 information tells you where to look. but if all it
20 tells you is that networks within -- that it's
21 expensive for networks to go the last mile, you
22 have an engineering study that shows that, I'm not

1 sure what -- how you translate that observation,
2 probably true, into a statement about whether a
3 customer in that building has alternatives, has
4 competitive alternatives.

5 MR. BAKER: Well, perhaps the same way
6 you would do it with that you folks were talking
7 about earlier, with rules of thumb. And so that
8 in general we will assume that competitors, that
9 CLECs can't get into buildings. I don't know.

10 MR. TAYLOR: That's fine if you have for
11 the rules of thumb that we were -- that the
12 Commission has been using in the past, the
13 triggers, if there is some relationship that you
14 can sew between the rule of thumb and prices that
15 you care about, or a number of competitors or
16 other things that you care about.

17 MR. BAKER: I guess I lost the logic
18 here because I think that you were saying we --
19 well, do you have another comment. You're about
20 to -- yeah, okay.

21 MR. CARLTON: I'll make one comment. I
22 think the answer to your question obviously, you

1 start out with some qualitative understanding of
2 how a market works to even come up with candidate
3 market definitions obviously. But I think what's
4 important here is, you know, I can't tell you --
5 let's just take example fixed wireless. Is that
6 an important constraint? I like to argue it is;
7 the other side has said it's not. It seems to me
8 that there's a way to answer that and that is have
9 candidate markets, some of which include fixed
10 wireless and then don't and see if it matters.
11 And if it does matter I think that answers the
12 question, you know, subject to doing the study
13 correctly.

14 So there's no question that quantitative
15 information can be very valuable and confirm your
16 qualitative understanding of how the market works.
17 The difficulty with qualitative information is
18 you're not sure what the empirical significance of
19 qualitative information often is, so if someone
20 says, oh, this is a carrier and it's really
21 expensive I can't, you know, I'm not going to do a
22 fancy engineering study but I'm just telling you

1 it's really expensive. You have to say, well,
2 does that mean the price is a tiny bit above the
3 competitive price, a lot above the competitive
4 price? You won't be able to answer that question
5 without a quantitative study. So at least at the
6 first level it seems to me you want to investigate
7 quantitatively if you go down this route the
8 presence of other possible suppliers, like fixed
9 wireless or, you know, it was suggested earlier by
10 these questions, how far away do you have to be
11 before it really is a constraint that you should
12 take into account or not.

13 MR. BAKER: But I'm still unclear on
14 something. So we have what we're calling
15 quantitative and qualitative information. And
16 quantitative information we're talking about doing
17 something like a study, just for the purposes of
18 argument, the study that you were kind of
19 proposing. Run regression of price against some
20 measures of market share. I mean, of the features
21 of the market that might be appropriate and see
22 what the relationship is. And for qualitative

1 information we're talking about looking at -- some
2 of them might be engineering studies that measure
3 the cost. Some of it might be ask the market
4 participants, either -- but that could be a
5 survey. It wouldn't have to just be a qualitative
6 anecdotal kind of asking. So, you know, there are
7 various kinds of ways of collecting both sorts of
8 information.

9 And I think you would agree, but I guess
10 I'm not sure, that it's possible that qualitative
11 information could be highly probative and
12 persuasive to you or not. And it's also possible
13 that quantitative could because you could have
14 high standard errors or, you know, precise
15 estimates. So in that sort of a world, why
16 shouldn't we be also looking to the extent
17 possible with both types of information and -- and
18 I'm going to add one more thing -- let's suppose
19 that one type of information is much more
20 burdensome to collect than the other. Shouldn't
21 that be a consideration in how we undertake our
22 study?

1 MR. CARLTON: I think there are two
2 parts. Right? The decision that we'll ultimately
3 adopt should depend upon the burdensomeness of the
4 collection of the data. There's no question. But
5 as I said earlier there are really two parts I
6 think to your decision process. One is sort of
7 really what's going on. And then second, given
8 what's going on and in recognition of the fact
9 that it may be very expensive to always figure out
10 what's going on, are there any shortcuts I can
11 take?

12 MR. BAKER: (inaudible) first place.

13 MR. CARLTON: Yeah. So let me go to the
14 first one. I think in the first one it's very
15 important. I think an important question here is
16 whether -- this is an example. Whether fixed
17 wireless, does it matter or not? And, you know,
18 the ILECs say yes. The non-ILECs are saying no.
19 Data analysis can answer that question. Should
20 it? It seems to me we are going down the path of
21 trying to figure out should we change what we're
22 doing in special access? That does seem like a

1 fundamental question, and I think we can only
2 answer that question by doing a data analysis and
3 getting a quantitative sense of how important
4 those other suppliers are in constraining price.
5 And I'm not sure qualitative analysis would
6 suffice. Now, that doesn't mean that I would say
7 that qualitative analysis isn't useful. I mean,
8 basically both are useful.

9 MR. BAKER: But the burden is not -- is
10 the burden only relevant in deciding what rule to
11 apply? Or is the burden on the parties and on the
12 Commission relevant in a setting how to conduct
13 the analysis in the first place to set up the
14 rule?

15 MR. CARLTON: Yeah, so I think -- I
16 think the very first question is do I want a do
17 the analysis. Now, because it's decision theory
18 you've got to do it, you know, sequentially and
19 look backwards. So that's what I've been doing.
20 So the first question is do I want to do anything?
21 The second question is if I'm going to do
22 something, what should I do? And the third

1 question is once I've done it and found out, how
2 should I implement it in a way that's reasonable.
3 You've got them backwards.

4 Okay. Now, obviously you have to have
5 some priors in order to answer the question. You
6 might ask where do those priors come from? That's
7 a decision theory question. But if you're at the
8 level of which you're trying to find out what are
9 the fundamental issues that maybe I can get
10 proxies for, you know, have them decide to do this
11 study in the first place. It does seem to me this
12 is really a central question. And it's such a
13 central question I don't see how you would really
14 want to go forward with the data analysis unless
15 you gather data on, for example, the importance of
16 fixed wireless because that's going to, I assume,
17 make a tremendous difference. And you know, if
18 you just look at what's happened over time, my
19 understanding is that fixed wireless is becoming
20 increasingly important so that, you know, that's
21 something you want to pay attention to.

22 MR. BAKER: So let's switch to fixed

1 wireless and cable providers, both of which we
2 have been told may be sufficiently close
3 substitutes for special access services supplied
4 by the ILECs to prevent them from exercising
5 market power. Or maybe not, but that would be,
6 you know, a question. And so can we do -- I guess
7 -- should we evaluate the possibility of the same
8 way whether we're thinking about (inaudible) to
9 the buildings and/or cell tower backhaul. Is it
10 the same analysis?

11 Either one.

12 MR. TAYLOR: It seems to me that it's
13 not necessarily the same analysis since the
14 customer characteristics may be different. May be
15 different in those cases. I mean, we do have
16 fixed wireless in very urban areas from building
17 to building and my understanding is that among the
18 wireless carriers there is a lot of fixed wireless
19 out in the boonies from tower to tower. So there
20 is a different characteristic. But the nice thing
21 about this particular example -- and you can throw
22 cable into it, too -- is that there is alleged to

1 be sufficient difference across geographic areas,
2 across parts of MSA, across wireless centers, that
3 you may find wire centers with a lot of fixed
4 wireless and a wire centers with a little bit.
5 And you might find urban wire centers with a lot
6 and rural wire centers with a lot, or something
7 like that. Which gives you the variation that you
8 need in order to reduce the standard errors for
9 the estimates that you're trying to make.

10 MR. BAKER: Anything else? Then, why
11 don't we switch to Bridger and Lee. And we'll see
12 if you have any comments on this area that we've
13 been talking about.

14 MR. SELWYN: I've been elected. A
15 couple things. First, Bill suggested that
16 triggers are good because they're easy to measure.
17 And that, unfortunately, is not a sufficient
18 reason because triggers have nothing to do with --
19 particularly co-locations I should say -- have
20 nothing in particular to do with the
21 competitiveness of a market. In fact, as I
22 suggested earlier, it may be just the opposite.

1 They are, if anything, indicia of dependence of
2 rivals on special access.

3 More to the point, he suggested that
4 they were easy to measure. But in fact that turns
5 out not to be the case either because the only
6 time the FCC ever measured co- locations was at
7 the point where the application for pricing
8 flexibility was considered and it never looked
9 back to see what happened after that fact. I
10 actually have some statistics on this and will
11 provide this. But in several 270 -- in Section
12 271 cases that occurred following the applications
13 for pricing flexibility, data was provided in
14 response to information requests to
15 interrogatories on co-locations. And let me just
16 give you one example.

17 In New Jersey, the vice president of
18 Verizon for New Jersey testified initially that
19 there were a thousand co- locations in New Jersey.
20 And I submitted testimony in that case on behalf
21 of the New Jersey Rate Payer Advocate, and in the
22 course of it propounded several interrogatories.

1 Among the interrogatories we raised were how many
2 of those co-locations are in arrears? That is
3 where the CLEC has not paid its bill currently.
4 And Verizon responded at the time that 232 of the
5 thousand co-locations that he had mentioned were
6 in arrears. We asked how many companies had gone
7 into bankruptcy. He indicated that nine companies
8 had since filed for Chapter 11. We asked him how
9 many disconnect orders had been received and he
10 advised us there were 391 pending disconnects. We
11 also asked him whether any of the disconnects were
12 in arrears so we didn't want to double count. He
13 said none of them were in arrears. So, in fact,
14 of the thousand that he talked about, only about
15 62 percent roughly were essentially gone or about
16 to be gone.

17 We have similar kinds of data from
18 Minnesota, from the District of Columbia, and from
19 Maryland, and they all suggest the same pattern.
20 And the GAO in its analysis also suggests that
21 there was a good -- that there has been attrition
22 on co-locations. So I dispute the fact that co-

1 locations are easy to measure. They're easy to
2 measure perhaps if you measure them once but
3 certainly if you're going to use it as an indicia
4 of competition you need to measure it
5 continuously. And that clearly hasn't been done.

6 The second issue that was raised with
7 respect to fixed wireless as a substitute, I know
8 a lot has been made about Clearwire's announcement
9 that they were going to use fixed wireless instead
10 of special access because it was cheaper. Now,
11 what's interesting is if you examine the analysis
12 that Clearwire must have gone through, they would
13 have been comparing their costs of constructing a
14 fixed wireless backhaul system against the cost of
15 special access from the relevant ILECs.

16 Interestingly, we've heard no similar
17 announcements of conversion from Moreline
18 facilities to fix wireless on the part of either
19 AT&T, Mobility, or Verizon Wireless. And that
20 doesn't surprise me at all because the kind of
21 analysis, the kind of cost comparison that they
22 would be looking at is not the cost of fixed

1 wireless vis-à-vis the special access price, but
2 rather the cost of fixed wireless against their
3 special access cost. And apparently they have,
4 inasmuch as they're not adopting fixed wireless --
5 and these are, of course, enormously larger
6 companies than Clearwire -- they're not adopting
7 fixed wireless to my knowledge anywhere. They
8 obviously must have reached the conclusion that
9 the cost of providing their own wireless
10 businesses with wire line backhaul is cheaper than
11 going off into the wireless world.

12 You know, fixed wireless, cable, we've
13 been hearing -- these are alternate technologies
14 we've been hearing about for a long time. People
15 have tried to use fixed wireless to compete, for
16 example, in the business market. There was a
17 company called Windstar a few years ago that had a
18 fixed wireless strategy and you know, I recall
19 actually talking to someone from them, from
20 Windstar in Boston, because they wanted to sell us
21 service. And the reputation they had was that the
22 service worked great except when it was raining or

1 snowing. So, you know, there are problems.

2 Cable is not prepared to use its coax
3 infrastructure for an alternative. They're
4 basically in the same position as other CLECs with
5 respect to constructing fiber and they confront
6 very similar kinds of costs.

7 So I think, you know, the real key
8 factor -- how am I doing on time? -- the key
9 factor here that I think you need to focus on is
10 something I mentioned in my opening comment, which
11 is supply elasticity. It's easy enough to point
12 to individual situations where a competitor has
13 entered the market, but that's not the relevant
14 issue with respect to whether the competitor
15 presents the incumbent with a price constraining
16 level of competition. What's relevant there is
17 how rapidly the competitor can respond to a change
18 in price. If the incumbent is of the opinion that
19 competitors at best can make only a small dent in
20 the incumbent's market, they are not going to
21 respond by lowering their price in response to a
22 small competitive initiative.

1 I think in one of its submissions -- I
2 think it was Time Warner in this docket who put it
3 this way that they're adding a thousand buildings
4 a year to their network but there were something
5 like 300,000 buildings out there altogether. So
6 in about 300 years they will have completed
7 achieving the same level of coverage as the
8 incumbents. That to be me suggests a very, very
9 low supply elasticity, and I don't see it as
10 presenting a competitive challenge to the
11 incumbents such that they would sacrifice profits
12 in the vast majority of their markets so as to
13 respond to this miniscule level of competition.

14 One last point on this. The premerger
15 AT&T and MCI during the triennial review actually
16 submitted evidence to the Commission specifically
17 addressing the costs of constructing laterals into
18 buildings which were at that point not subject to
19 competitive presence. And estimates were provided
20 that range from about \$60,000 to about a quarter
21 of a million dollars. I think those numbers may
22 have come down a little bit but they have not come

1 down by an order of magnitude. And my
2 recollection is there was some reference to it in
3 an actual broadband plan document that was I think
4 in the perhaps \$50,000 to \$100,000 range.

5 Proximity to an existing fiber ring
6 makes entry into a building feasible. It doesn't
7 necessarily make it cheap. You still have to get
8 into the building. You have to construct
9 facilities in the building. You have to deal with
10 landlords. You have to create riser cables,
11 telephone closets for cross connect points. These
12 are expensive undertakings. If there is
13 competitive fiber nearby it doesn't necessarily
14 mean that competitive presence is guaranteed. And
15 to demonstrate this in several submissions that
16 the ad hoc committee has made we provided a map.
17 We reproduced a map of the San Francisco financial
18 district that SBC, if you'll remember them, had
19 submitted that actually showed at the time
20 competitive fiber down most of the streets in the
21 San Francisco financial district but also
22 identified the locations at which they were

1 providing special access service. They were
2 providing special access service in buildings on
3 the streets. On the very streets that there was
4 fiber right in front of that building. And in
5 fact, way more buildings on those streets were
6 being served by special access than by CLEC
7 facilities.

8 So I would submit that this proximity
9 argument is being overblown. Without proximity
10 you have no possibility of competition. With
11 proximity you are then confronted with a business
12 decision, an investment decision, as to whether
13 you want to drop \$50,000 to \$100,000 or more to go
14 into a building. And there are only so many you
15 can do at any given point in time.

16 MR. BAKER: If I could just quickly
17 follow up here. Do I take it that you're saying
18 just to take the logic to its conclusion, that
19 because of the problems with the co-location, you
20 know, bankruptcies and the like, and because of
21 what you know about how the costs of expanding
22 supply for the CLECs and the difficulties they

1 face, we ought to presume that based on this kind
2 of evidence that the triggers aren't working on
3 the one hand, and, on the other hand, that the
4 CLECs aren't going to be good rivals to discipline
5 the highlights? Is that the implication?

6 MR. SELWYN: I think I would agree with
7 that. We don't even know if the triggers are even
8 valid today based on the criteria that was
9 established by the Commission for Phase 1 and
10 Phase 2 price ability. I don't mean -- the
11 triggers have never been good predictors of
12 competitive entry. And the important question is
13 sort of -- don't take a five-foot view, which is
14 what Dr. Taylor is suggesting, and look at
15 individual billing. Take a 30,000-foot view.
16 Look at the market as a whole. Look at
17 competitors' ability to compete in that market in
18 terms of their ability to respond to super
19 competitive prices on the part of the ILEC. And
20 what you have to conclude is that they do not
21 present a competitive challenge.

22 MR. BAKER: All right. Well, let me

1 turn it over to Don to see how many feet up he
2 wants to put it.

3 MR. STOCKDALE: I think I want to drop
4 it down a little bit, too. And my first question
5 is to Bill. If I took down your comments
6 correctly, you suggested that we should take a
7 quantitative approach and you suggested looking at
8 the number of bids at a building and the distance
9 from fiber rings. I think those were two of the
10 quantitative assessments you suggested the
11 Commission might do.

12 MR. TAYLOR: Two measures of actual
13 competition that customers in a building face,
14 ones that, in fact, we don't -- haven't made much
15 use of is you simply count noses and look at lit
16 buildings.

17 MR. STOCKDALE: Okay. So what you want
18 to do is look at number of bids at a building, in
19 the AT&T-FCC and Verizon-MCI merger proceedings,
20 my recollection was that where carriers issued
21 RFPs for connectivity, seeking wholesale
22 connectivity, particularly to serve multi-location

1 customers, that they tended to receive a
2 combination of an offer that would include both
3 what are called type one and Type 2 special access
4 services. Type one is where the wholesaler
5 provides solely over its own facility; Type 2 is
6 where it combines it with ILECs' channel terms in
7 most cases. It seems to me that if we're
8 considering potential competition that what we
9 would be interested in is the Type 1 services, not
10 Type 2.

11 So are you suggesting here then what we
12 should be looking at is the number of bids to
13 provide Type 1 special access services at
14 particular buildings.

15 MR. TAYLOR: Well, certainly, Type 1
16 services are end-to-end competitive and the ILECs
17 is not in the picture. So certainly those are
18 kind of the cleanest measure of a competitive
19 alternative independent of what the ILEC is doing.
20 A Type 2 bid is not without information because
21 the Type 2 networks -- these bids are for serving
22 a building and part of the network. So, for

1 example, the Type 2 part where an ILEC service
2 might come in could well be not in New York, but
3 in, you know, in San Francisco or something at the
4 other end of the network, because there's a range
5 of places where the ILECs, if we're talking about
6 New York, a wire center in New York or a building
7 in New York, a range of circumstances in which
8 even for Type 2 networks that Verizon if it's
9 serving New York has nothing to do with the price
10 that the Type 2 end of the circuit in San
11 Francisco is involved in. So it isn't pure; it's
12 better than nothing. And it's certainly better
13 than I think arguing about whether engineering
14 studies say that it's very expensive, not too
15 expensive, not expensive at all to actually join
16 buildings to networks.

17 MR. SELWYN: Just very quickly, you
18 know, when competitive bids of Type 2 circuit,
19 that puts the price floor for that Type 2 circuit
20 is what the ILEC charges that competitor. So the
21 notion, I mean, if the prices are similar it's
22 because the competitor has pretty much decided to

1 sacrifice all profits in that just in order to get
2 the type one business. That teaches you
3 absolutely nothing to compare Type 2 prices from a
4 CLEC against the ILEC's special access prices.

5 MR. CARLTON: Just as sort of maybe a
6 matter of logic or economic theory, that's not
7 quite right. In other words, I think what Bill
8 said is what I feel more comfortable agreeing
9 with. That is the Type 1 is the cleanest
10 experiment. A Type 2 is less clean but you would
11 have to figure out what is motivating the
12 subsequent pricing for the special access in the
13 Type 2 leg. And that I think is what Lee was
14 getting at. He was saying obviously if you can,
15 you know, if you're dependent on someone who is
16 your rival and that rival could raise that price,
17 then it's not going to be informative. I agree
18 with that.

19 But I also would -- what I interpreted
20 Bill to be saying is you need to know that in
21 order to rule out that it's of no value. And
22 there might be situations where, for example, the

1 special access that's underlying with Type 2 is
2 coming about in a way in which there's no
3 knowledge of the ILEC knowing that you are the
4 rival in that particular area and he's setting it
5 nationwide and he's not able to price
6 discriminate. So I would say the Type 1 seems
7 cleanest, but the Type 2 you'd have to investigate
8 the situation to figure out how much information
9 you can get out of it.

10 MR. STOCKDALE: Your second point
11 example, Bill, was distance from fiber rings. In
12 the record in this proceeding, some parties have
13 suggested that economic feasibility of a building
14 to a particular building is a function of at
15 least, as you suggested, distance from the
16 building and the potential demand at the building.
17 Would you agree that one way of trying to assess
18 potential entry then would be to examine what are
19 the sort of rules of thumb that CLECs used in
20 deciding whether to -- they're willing to consider
21 building to a building and then try to apply it if
22 we had information about location of fiber rings?

1 MR. TAYLOR: Sure. I mean, I think that
2 information is useful. I think that will point
3 you or would point me to an empirical analysis
4 which asks, you know, how many bids do we get --
5 does a customer get in a building that has three
6 DS3s level of demand or is within X-feet of two
7 fiber networks? And with enough variation in the
8 data one could actually hope to ascertain what the
9 individual effects of those characteristics are.
10 It's useful to know that those are important
11 elements for a competitor, but that by itself
12 doesn't tell you whether you've got enough, in
13 some sense, competition at the end of the day.
14 You've got to tie that back to some measure of
15 prices -- of how prices change when those
16 characteristics change.

17 MR. SELWYN: There's another
18 consideration besides the cost and the potential
19 revenue. The competitor has access to only a
20 finite amount of capital and a finite amount of
21 resources. It's going to be making investment
22 decisions not simply yea-nay. It's going to be

1 ranking the opportunities available to it and
2 determining how best to use its resources. So if
3 the competitor is physically capable in terms of a
4 human, technical, and capital resources of only
5 coming into a certain number of buildings in a
6 given point in time, that's it. Now, there may be
7 other buildings that are theoretically potentially
8 profitable but can't be dealt with in the current
9 timeframe because those resources simply don't
10 exist. And this goes to the issue of supply
11 elasticity. You just can't ignore the
12 competitor's ability or lack of ability to
13 respond.

14 MR. BAKER: I want to -- I want to have
15 -- I've got -- I want to go back to where Bill was
16 talking about a moment before and ask my same
17 methodological question that got brought up before
18 in a slightly different way based on this. You're
19 in effect proposing, Bill, that we use the -- what
20 the CLEC rules of thumb are as a way of creating
21 hypotheses and test them with the price data.
22 Now, why aren't you proposing the reverse? Use

1 the price data to create hypotheses and test it
2 using the CLEC data. I mean, why is the
3 definitive data the price data?

4 MR. TAYLOR: Well, I think that's at the
5 end of the day what we're trying to measure here.
6 We're not -- what we're trying to do is ascertain
7 whether the pricing flexibility rules as they sit
8 in the FCC are doing what they're supposed to do.
9 And I would think that the kind of standard we'd
10 like to apply is to look and see that across the
11 different geographic and product markets that are
12 affected by those rules, that the prices that come
13 out of it are somehow close to a "competitive"
14 price. That's why I'm focusing on price. And I'm
15 perfectly happy to take what we know, as well all
16 know as economists, are the criteria that
17 competitors or that I like to use to decide where
18 to invest our resources as a guidepost as to what
19 sort of things we should be looking at. But
20 ultimately I think if we don't take it back to
21 something quantitative like -- gee, this ends up
22 with prices higher than a competitive price or

1 lower, that -- we'll just be arguing against one
2 another.

3 MR. BAKER: All right. Well, this has
4 been a very interesting first half of our program.
5 And so now we'll take a 15-minute break and all
6 reassemble exactly when the 15 minutes is up and
7 start again. Thank you.

8 (Recess)

9 MR. BAKER: Okay, everyone. Welcome
10 back to part two of our workshop. And with the
11 same cast only funnier this time, please.

12 (Laughter)

13 So I want to spend our next few minutes
14 talking about interpreting pricing evidence and
15 profits evidence. And let's start with Bridger
16 and Lee. Let me ask you all first, we've been
17 told that prices for special access services are
18 higher in price flexibility areas than in price
19 cap areas. And let's suppose that's right. Well,
20 you might interpret that in lots of ways. It
21 could be the firms are exercising market power,
22 but perhaps there are other possible explanations.

1 Higher marginal costs, you know, in the price
2 flexibility areas or the data is misleading.
3 Maybe it doesn't account properly for exchanging
4 mix of products or it's hard to measure prices
5 when there are multi-region and multi-service
6 pricing. Or maybe the price caps are just too
7 low. They're below the competitive levels.

8 So how should the Commission decide
9 among all these possibilities or any others that
10 might come up? You know, how should we determine
11 what to infer from higher prices for special
12 access services and price flexibility areas and
13 price cap areas?

14 MR. SELWYN: Let me take a run at that.
15 The prices -- I think, first of all, we have to
16 focus on what constitutes a price because that in
17 itself seems to be somewhat controversial. The
18 ILECs talk about ARPU -- average revenue per unit
19 -- is somehow indicia of price. And what they're
20 trying to do is sort of focus on a unit of
21 service, such as a DS1 and make comparisons across
22 time, across different pricing regimes, price gaps

1 versus price wax, across contract and non-contract
2 services, and also across services of different
3 capacities. And that's kind of like saying that,
4 you know, a seat in an automobile is the same
5 thing as a seat on a bus, or a potential seat in
6 an 18- wheeler and a trailer on an 18-wheeler that
7 doesn't even have any seats in it that you might
8 theoretically put some seats in. These are
9 basically meaningless. If we're going to make
10 price comparisons, we have to compare apples to
11 apples. We have to develop a basket of services
12 and holding things constant make price comparisons
13 which basically means that we can't compare a DS1
14 price on a month-to-month basis with a DS1 as part
15 of a 5-year, \$500 million contract.

16 That said, here's what we know. We have
17 a consistent practice that when markets are taken
18 out of price caps and moved into pricing
19 flexibility the prices have gone up. And the most
20 recent example of that occurred approximately
21 2-1/2 weeks ago. And what's sort of interesting
22 about that in the case of AT&T, they had actually

1 filed the pricing flexibility price back in I
2 believe March of 2007. So they were able to --
3 we've heard over the years about the importance of
4 pricing flexibility is giving carriers the ability
5 to respond to competitive market pressures. And
6 here's a so-called competitive price or what
7 they're purporting to be a competitive price, that
8 they actually established under the conditions
9 extant in March of 2007 and implemented it on July
10 1, 2010. I guess nothing changed in the
11 competitive marketplace over that three years.
12 So, so much for the dynamics.

13 The point is that you have to -- the
14 appropriate benchmark is not looking at a price
15 that you have no basis to assume is competitive to
16 begin with. I think we need to look at other
17 indicia and the indicia that we have been
18 suggesting are basically to look at the kind of
19 indicia that are common in antitrust analysis
20 which relate to price-cost relationships and
21 profit earnings levels on services subject to
22 potential monopolistic conditions.

1 MR. BAKER: Well, I want to get to the
2 price-cost and profits, but before we get to that
3 I want to ask will you give the same answer to a
4 second question about price comparisons? We've
5 been told that prices for special access services
6 have been falling over time and, you know, one
7 might say, well, that's consistent with increased
8 competition, but of course there are other
9 possible explanations for that as well. Costs are
10 falling more rapidly than prices perhaps, or
11 demand is growing and firms have increasing
12 returns to scale. Or maybe it's just the data is
13 misleading again.

14 So do you want to -- are you giving the
15 same answer to that question? Let's not look at
16 that; let's look at the profits and margins?

17 MR. SELWYN: The answer I would give
18 first of all is ARPU has been falling, but not
19 price. And the reason for that is that over time
20 more special access services have been -- a higher
21 proportion of special access services have been
22 moved into contract. A higher proportion of

1 special access services have been in higher
2 capacity services, OCN services. It doesn't take
3 very many OCNs to come up with an awful lot of DS1
4 equivalents. So if ARPU is basically DS1 and you
5 are looking at it across all capacities, across
6 all contract terms, it's hardly surprising you
7 reach that conclusion. Our understanding is,
8 particularly at the lowest D markets, that is the
9 DS1, DS3 level, that there is -- when you hold all
10 of the attributes of the service constant, that
11 prices are not dropping.

12 It would be, you know, it would be like
13 trying to compare an airline fare from five years
14 ago with an airline fare today ignoring the fact
15 that if you had an airline ticket today you have
16 to pay for luggage and you have to pay for food
17 and you have to pay for this, that, and the other,
18 which you didn't five years ago. You can't make
19 those kinds of comparisons unless you do it more
20 comprehensively. So the core premise of the
21 question is based on ARPU, not on price.

22 MR. BAKER: So what exactly is not being

1 -- can you elaborate a little more on what we're
2 missing? You know, what's the equivalent of the
3 luggage fees that aren't being accounted for in
4 the analysis if you're comparing prices in the
5 past to prices today?

6 MR. SELWYN: Well, if I enter into or a
7 customer enters into a contract to spend a certain
8 amount of money -- \$500 million, \$100 million,
9 whatever -- over an extended period of time, that
10 customer is accepting a fair amount of risk that
11 the customer does not accept in the context of say
12 a month-to-month type of service. The customer
13 makes an evaluation of whether or not the
14 potential savings that is available to him is
15 worth that additional risk.

16 Now, part of the problem is that several
17 of our people we've talked to have pointed out,
18 and it seems to be consistent, is that because
19 prices, particularly for noncontract services have
20 continued -- have been escalating, that the
21 objective here may well be not so much to reflect
22 much of anything with respect to price but rather

1 to push more customers into term contracts by
2 making them -- making the course of not accepting
3 those terms and conditions prohibitive. And a
4 monopolist can get away with that because a
5 monopolist can establish a relationship among
6 these various alternatives.

7 MR. BAKER: All right. Let's switch
8 over to rates of return and questions related to
9 that. So, I would like to frame the question this
10 way. Cost accounting is used in business settings
11 outside of the regulatory context to determine
12 profits for individual services and multi-product
13 firms. And I'd like to just ask you whether the
14 rates of return on special access services in the
15 ARMIS data are more reliable or less reliable as
16 measures of underlying economic rates of return
17 than with the measures that are commonly used in
18 these nonregulatory settings?

19 MR. SELWYN: I think the issue at best
20 goes -- the question at best goes to precision,
21 not so much to the fundamental character of the
22 use of cost accounting for this purpose. You have

1 plans of various capacities that in the case of a
2 multi-product firm is being utilized for a variety
3 of services. So it's being used for just
4 ordinary, local, intrastate POTS-type services.
5 It's being used for switchbacks. It's being used
6 for special access. Perhaps for other things.
7 And it is not unreasonable to make allocations
8 based on relative use, and in fact, the
9 Commission's cost allocation manuals that have
10 existed now for some period of time have existed
11 now for some period of time have used this as a
12 standard.

13 I think it's kind of interesting, and I
14 feel compelled to bone this out because we have
15 been hearing this canard about cost accounting,
16 multiproduct firms, worthless data, but less than
17 a month ago AT&T, signed by Gary Phillips and
18 David Lawson, submitted a petition calling for the
19 Commission to suspend and issue an accounting
20 order with respect to a NIKA Tower filing based
21 upon what it characterized as excessive earnings
22 of NIKA and the excess that it was talking about

1 were numbers in the 12 and 13 and 14 percent
2 range. And this is based on category cost
3 accounting in the intrastate switched access
4 category. So it's exactly analogous to the kind
5 of ARMIS data that we've been looking at. You
6 know, I'm willing to concede that cost accounting
7 data may be less than precise, although not
8 necessarily all that inaccurate. But what really
9 struck me when I read this is that from AT&T's
10 perspective, they're looking at it and accepting
11 this extreme precision. For example, the total
12 figure that AT&T gave for NIKA's excess earnings,
13 they provided it to nine significant figures down
14 to the dollar. Now, they didn't put the pennies
15 in so maybe that's the level of imprecision that
16 they ascribe to cost accounting, but they've got
17 it down to the dollar. And for AT&T to argue on
18 the one hand that this is -- the costs are
19 (inaudible), the categorization is useless, and
20 come in to this Commission with a petition
21 characterizing this very same kind of data as
22 producing excess earnings to a far lower magnitude

1 than what we're talking about I think really kind
2 of underscores that what you're hearing is
3 entirely self-serving.

4 MR. BAKER: Well, regardless of what
5 rhetorical point you want to make, the question is
6 -- the question I want to know is why this is
7 particularly reliable -- how this compares in
8 reliability with cost accounting in a
9 nonregulatory context. Is this -- are these data
10 actually, you know, more useful or less useful
11 than what you see in firms' own kind of cost work
12 that's outside of the FCC regulatory setting?

13 MR. SELWYN: (inaudible) engage in cost
14 accounting, most large firms in this country are
15 multiproduct firms. They want to make judgments.
16 They may make pricing judgments that deviate from
17 the cost accounting results that they get but the
18 cost accounting results are drivers. And in this
19 particular instance we are looking at results that
20 are so astronomical. And I'm starting to be
21 rhetorical again, but we're looking at
22 triple-digit rates of return. You know, even if

1 you cut them in half they'd still be huge. And I
2 don't think they should be cut in half. The kinds
3 of criticisms that have been on level with this
4 data are essentially at the noise level. They go
5 to precision issues at best. They certainly do
6 not go to the underlying usefulness.

7 And I would make one other observation
8 relating to this. The very fact that this plan is
9 used jointly for multiple services is itself a
10 source of the incumbent's market power because
11 they have the ability to shift the recovery of the
12 course of that plan around and among these various
13 services. They can sacrifice, for example,
14 profits in what they might perceive to be more
15 competitive markets such as consumer-oriented
16 switched access services and make it up through
17 shifting course allocations to -- or at least
18 revenues to special access.

19 So, you know, what these figures do is
20 provide a benchmark indicia of the potential level
21 of profit. We can debate separations freezes. We
22 can debate specific allocations. But the reality

1 is that these numbers are just so far away from
2 the authorized rate of return that they can't be
3 ignored.

4 MR. BAKER: Why don't I --

5 MR. STOCKDALE: Can I ask a quick
6 question?

7 MR. BAKER: No, go ahead.

8 MR. STOCKDALE: Two quick questions.

9 The first is Dr. Selwyn, are you aware whether as
10 part of incumbent LECs' ongoing accounting debate,
11 internally do cost allocations at a level such
12 that they would be able to derive rates of return
13 for special access versus switched access, versus
14 other types of services?

15 MR. SELWYN: I'm not specifically aware
16 of what they're doing. I do recall some
17 representations being made at the time the
18 Commission was considering eliminating the ARMIS
19 reporting requirements that this data would be
20 maintained in some form and could always be
21 reinstated. But I don't know specific details.

22 Let me just add one thing for

1 clarification. The (inaudible) Committee has long
2 supported the use of ARMIS-type rate of return
3 analysis with respect to special access. We
4 understand that there are a lot of concerns about
5 this have been raised. Some of these we consider
6 to be unfounded, but nevertheless we understand
7 there have been concerns raised. And Bridger has
8 proposed an alternate approach to examining
9 price-cost relationships that does not rely on
10 cost accounting data in this sense. And we
11 support that. We think that ARMIS-type results
12 could be used. We think the long and incremental
13 cost analysis of the type that Bridger suggested
14 could be used. All these get you to ultimately
15 the same place and they show prices to be far in
16 excess of cost.

17 MR. BAKER: Okay. So Bill and Dennis,
18 all of the results get to the same place showing
19 price far in excess to cost and your trivial
20 criticisms don't -- you know, might change the
21 magnitude but not the bottom line. What do you
22 think of that? That's the part where I'm trying

1 to inject humor. It didn't work. (Laughter)

2 MR. TAYLOR: Not very well. No.

3 MR. CARLTON: I thought it was funny.

4 Proving economists have little sense of humor.

5 Let me try and respond. Really, the
6 prior questioning had two parts: One was
7 price-cost and one was rates of return.

8 You know, there's no question I agree
9 with what Lee said, that you have to do an apples
10 to apples comparison. Otherwise, if you're trying
11 to ask if the price is something foreign. That I
12 agree with. But I don't want to suggest that
13 shifts over time don't matter. In other words, if
14 you're interested in the prices that people are
15 paying for an item, if you're moving from the high
16 priced bundle to the low priced bundle it is
17 relevant. And, you know, you want to focus on
18 both it seems to me. You don't want to ignore
19 either.

20 But having said that I think from the
21 statements that are filed, and I'm not going to go
22 into any of the disputes, but on the prices as to

1 who is right and who is right, prices falling,
2 ARPU's falling, the prices in this area are higher
3 than prices in that area. Just a few points I
4 think are useful to make and that is that it's
5 transaction cost prices, not list prices that
6 people pay. And that's what you, if you are
7 focused on, asking the question what's happening
8 to prices, I think you should be paying much more
9 attention to transaction prices and not ignoring
10 them.

11 Second, the list prices in a lot of
12 these areas, the list prices and, you know, I know
13 in some areas they've not changed, but that's
14 because the list prices, the prices at which the
15 ILECs are compelled to service people and the
16 rivals are not. So there's a self selection
17 quality to the list prices. In a sense the price
18 is to serve the highest customers. That in a
19 sense is what generates some of the disputes
20 between what the ILECs say and what the non-ILECs
21 say about pricing. And there was some reference
22 to AT&T's prices going up. Just be careful there.

1 My understanding is that it's part of the SBC-AT&T
2 transaction there was a requirement that RSBC
3 agree to lower their price. So the fact that they
4 subsequently raised their price I'm not sure is
5 telling you much about competition, it's telling
6 you about the conditions the FCC might have
7 imposed.

8 And then the final point, because I was
9 actually -- I may have once knew this, I didn't
10 realize this, for example, a city like New York
11 that people thought was pretty competitive,
12 certainly in the downtown area, is not classified
13 as a Phase 2 area so that when you're doing
14 comparisons between, you know, Area 1s and Area
15 2s, it's not clear you've completely characterized
16 everything, all that correctly.

17 So those are just some of the points of
18 dispute I think and what are the relevant prices
19 to be looking at and which direction they're
20 going. I do think both Verizon -- I think this is
21 in my statement. Both Verizon and AT&T have
22 submitted data showing that ARPUs are falling,

1 ARPU's by DS1, by DS3 are falling. So the general
2 impression I have is that they are going down.
3 That doesn't mean you shouldn't do as fine an
4 analysis as possible, but it does mean when you're
5 doing an analysis you should focus on the right
6 things which I think are transaction prices.

7 In terms of your question about rates of
8 return and aren't they through the roof or
9 price-costs, aren't they through the roof, I made
10 this point earlier in my opening statement, if you
11 think the gap between price and what you're
12 measuring is marginal cost, if that's a positive
13 number and you're going to use that as a measure
14 of market power as a trigger, just be real careful
15 because my suspicion is if you did that across
16 most U.S. industry you're going to find a gap.
17 And I don't think we want to say we want to
18 regulate all U.S. industry. Or I wouldn't want to
19 say that.

20 And second, as I pointed out, if you're
21 using that as your indicia of market power,
22 suppose you applied that to some of these rivals,

1 some of whom, you know, take even a small rival.
2 I bet in certain cases if you did the same
3 calculation you would find price above their
4 marginal cost. Do you think they have market
5 power? So I think there's some -- that just tells
6 you you're using price versus marginal cost as the
7 indicia of market power as the trigger to
8 intervene here. You're not really pointing us in
9 the right direction.

10 As far as rates of return, rates of
11 return by special access. I mean, as I said in my
12 opening remarks, I mean, there are two common
13 mistakes that, you know, I teach my MBA students
14 and I teach in microeconomics not to make -- focus
15 on transaction prices not list prices, and if you
16 think you can allocate common costs, you're wrong
17 and you're making a mistake, period. And that
18 doesn't mean a firm can't calculate overall what
19 its rate of return is, but if you ask someone
20 what's the rate of return -- and I don't want to
21 indicate that that's easy to do but at least
22 theoretically I could define it for a firm.

1 Whether I could do it for a product in which there
2 are common costs, I can't do that without
3 specifying the price of all the other related
4 products. And I'm not sure it makes a lot of
5 sense to be doing that. I just don't see how
6 that's a sensible calculation.

7 MR. BAKER: I have two questions to
8 follow up with what you just asked. On the idea
9 that, well, the CLECs might have high rates of
10 return as well as ILECs, you know -- I mean, high
11 price-cost margins, suppose we had in our heads
12 like just the simple (inaudible) dominant firm and
13 a competitive fringe, and the competitive fringe
14 may be rising marginal cost. So the dominant firm
15 presumably might have a high (inaudible) -- I'm
16 just doing it in my head. You might get it right.
17 The dominant firm might have a high margin and
18 some of the fringe firms might also and some would
19 have low margins. But in that model it's only the
20 fringe firms are price takers. Right? So in
21 other words if we found that -- so by implication,
22 if we found that both CLECs and ILECs all had high

1 rates of return, it isn't inconsistent with the
2 idea that it's the ILECs that has market power and
3 the CLECs are just price taking rivals. Correct?

4 MR. CARLTON: I agree with that.

5 MR. BAKER: Okay.

6 MR. CARLTON: But it also -- if for
7 every rival who is complaining you did the
8 calculation for them and they had -- by the
9 indicia they're using to classify the ILECs as
10 having too much market power, they have the same
11 amount, that should raise eyebrows that maybe
12 there's a funny criteria.

13 MR. BAKER: Okay. Now let me switch
14 over to the cost accounting which, you know, about
15 the common costs and what you tell your MBAs. So
16 when they go to their accounting class and they
17 learn about cost accounting and they see that, you
18 know, their accounting professor I think might be
19 telling them that firms seem to get some sort of
20 value out of working out profits and margins, or
21 rather at least margins after allocating common
22 costs, is that wrong? Are the accountants just

1 wrong or am I wrong of how I asked the question?

2 MR. CARLTON: No. I think the accounts
3 would say this. The accountants are in the
4 business of providing information and they want to
5 make sure people understand the information that's
6 provided and they don't misuse it. So, for
7 example, I would be very surprised if I asked --
8 and I have asked some of our accounting
9 professors, not all of them, what they do about
10 common costs. And they do not -- they would not
11 make a fallacy of telling someone to price at
12 average cost for example or to ignore the
13 distinction between average cost and marginal cost
14 when they're deciding how to price a product, or
15 to get confused about the profitability of
16 entering a business if price is above marginal
17 cost, even though price is lower than some
18 allocated average cost. I don't think, you know,
19 I think the best accountants now understand
20 economics very well and they understand that their
21 role is to provide information in some way such
22 that people who understand economics of business

1 strategy can use the information as best they can.

2 MR. BAKER: I'm just laughing because 15
3 years ago when I taught at business school I used
4 to get in arguments with the accounting
5 (inaudible) this economist-accountant thing. Let
6 me turn it over to Don.

7 MR. STOCKDALE: I have a few follow-up
8 questions primarily for Drs. Carlton and Taylor.

9 As it first relates to John's first
10 question about the differences in prices between
11 Phase 2 and Phase 1 areas, Dr. Taylor, in the
12 earlier panel at one point you said that it was
13 your understanding that Verizon in its volume and
14 term tariffs, term (inaudible) -- volume and term
15 discounts and contract tariffs basically offered
16 these on a study area-wide or even broader basis.
17 If that were the case, why can we not look at the
18 rack rates in Phase 1 and Phase 2 areas as to
19 compare relative prices given that they're going
20 to be discounted similar amounts in both areas?
21 And if so, won't we then conclude that prices in
22 Phase 2 areas are higher than Phase 1?

1 MR. TAYLOR: No, I don't think so.

2 MR. STOCKDALE: Okay.

3 MR. TAYLOR: Because the difference as I
4 understand it is that contract tariffs are offered
5 and negotiated between the ILECs Verizon in your
6 case and customers. And not -- contract tariffs
7 are available to any other similarly situated
8 person but not every customer is offered every
9 contract discount, I believe. And maybe that's
10 wrong, but the alternative -- the other side of
11 that is not every customer is interested in every
12 contract. That is volume and term. Sometimes you
13 don't have enough volume. If we're looking at
14 downtown Manhattan where people or a building does
15 have huge volume, then it will see large discounts
16 and low prices in such a wire center and such a
17 building. In Peoria, it may not be that. So
18 that's how you get a different --

19 MR. STOCKDALE: I thought you were going
20 to say that the contract tariff was limited only
21 to a particular MSA so that that would be the
22 difference. If the contract tariff were offered

1 nationwide, then if I were IBM and qualified for
2 it, I'd get the same discount nationwide and I'd
3 still face a different price in Phase 2 and Phase
4 1 areas because it's all taken as a percentage
5 discount off the list price.

6 MR. TAYLOR: Well, you buy a contract --
7 you buy a network -- if you're IBM you buy a
8 network from Verizon or from AT&T. And that
9 includes tariffs in lots and lots of different
10 wire centers, all of whom are -- and the entire
11 network is something that you qualify for a
12 discount on. Now, that doesn't mean that if you
13 look at an individual wire center that there may
14 not be variations in prices across wire centers
15 because a wire center will have some customers who
16 qualify for big discounts; some qualify for little
17 discounts. It depends upon the characteristic of
18 the wire center. If that answers your question.

19 MR. STOCKDALE: Well, it's enough for
20 now. We have to move on.

21 Second question. John, I'll speed up
22 the following issue again. I didn't quite

1 comprehend your response. Let's accept that
2 whatever the measure of price we use, prices have
3 been falling over time. And I know that Dr.
4 Sullivan doesn't agree with that but let's assume
5 that for this purpose. It would also be the case,
6 however, that that won't necessarily tell us that
7 markets are competitive. Right? If it were the
8 case that we were in an industry with increasing
9 returns to scale and demand was growing steadily,
10 we would expect prices to fall. And if were the
11 case that there were technological change, we'd
12 also suspect that prices would fall. So how do we
13 determine whether the price decrease is actually
14 indicating that prices are competitive or it's
15 simply the result of increasing returns to scale?

16 MR. TAYLOR: Well, we don't. I don't
17 think we ever cared that the direction of price
18 changes, up or down, tells you anything about
19 competition. One, for the reason you just named,
20 that cost may be falling and prices either falling
21 faster or slower than cost and you don't know that
22 so you don't know that that's competition.

1 The other one, of course, is whether the
2 starting price is. I mean, we have been under --
3 the ILEC has been under some form of regulation
4 for special access since the dawn of time. And
5 all of the mechanisms that have been used don't
6 guarantee that in 2001, the prices will precisely
7 competitive market prices so that prices falling
8 from that might be indicative of increased
9 competition. Prices rising might not be. So for
10 both reasons, the direction of prices by itself
11 doesn't tell you anything.

12 MR. STOCKDALE: Okay. So if we wanted
13 to -- I mean, so you don't think the trend in
14 prices is at all useful in considering whether or
15 determining whether prices are competitive?

16 MR. TAYLOR: It isn't dispositive for
17 the two reasons that we've discussed.

18 MR. STOCKDALE: Dr. Selwyn, you had a
19 comment?

20 MR. SELWYN: Quickly. In 2001, or prior
21 to 2001, prices were under price caps and the
22 rates of return in the special access category

1 were not that far different than the authorized
2 rate of return which in effect has been more
3 recognized as a surrogate for competitive price.
4 So I think that I guess I would disagree with Bill
5 because we actually have a basis to conclude, or
6 at least we had something that came to a
7 competitive price at the outset of pricing
8 flexibility.

9 Bear in mind also I think there's been
10 some mischaracterization of our position with
11 respect to these price comparisons because the
12 suggestion -- Dennis made the suggestion about
13 price -- comparing price to marginal cost. Cost
14 accounting results as reported in ARMIS are not
15 marginal costs. They are, in fact, a fully
16 distributed cost that includes the capital
17 amortization, depreciation, return on capital,
18 normal return on capital so that it, again, is not
19 a price to marginal cost comparison. And even
20 (inaudible) based prices that Bridger is
21 suggesting be used as a surrogate for cost,
22 similarly is not marginal cost. It's long run

1 incremental cost which is very different and
2 similarly includes capital and cost of capital.

3 MR. CARLTON: The fact that it includes
4 someone's allocation of capital charge makes it --
5 does not remedy the situation. There's an
6 allocation going on and you can't allocate common
7 costs. That's well known in economics and it's
8 really just not even a matter that economists even
9 debate anymore. My only reference prior to price
10 and marginal cost was that the definition of
11 market power is often that price is above marginal
12 cost. So if you use marginal cost, that as your
13 definition of market power, that's also not going
14 to get you very far here.

15 But I wanted to ask a question or maybe
16 clarify a question Don had asked Bill or maybe I
17 just didn't understand the answer. Well, all
18 right. So you had asked the question about
19 national terms in a contract, and this came up
20 again. You'd asked it before the break and it
21 just came up again, and I just want to make sure.
22 I interpreted -- and Bill, you tell me if I'm

1 wrong -- I interpreted, Bill, the answer to be,
2 yes, there may be national terms in certain
3 pricing, but that doesn't mean there can't be the
4 studies that he was describing. In order to do
5 the studies he's describing, you need geographic
6 variation in the pricing on the left-hand side,
7 the dependent variable, and that's what's going to
8 give you the econometric identification. The fact
9 that there are some terms that are common if
10 you're using a common network or something, that
11 you have a control for. I'm not saying it's easy,
12 but I assume you didn't -- meaning Bill -- didn't
13 mean to imply that the answer to Don's question
14 was, yes, there are common terms and, therefore,
15 I'm not going to do my benchmark study.

16 All right. Well, I just wanted to
17 clarify that.

18 MR. STOCKDALE: I guess Lee and then
19 Bill.

20 MR. SELWYN: I feel compelled to respond
21 to this assertion that economists agree that you
22 can't allocate common costs. And that's certainly

1 true in a static sense. But I can tell you that
2 we have studied changes in common costs, changes
3 in joint costs, changes in capacity-based costs,
4 over time comparing costs to volume of output.
5 And there is a very strong relationship and it
6 proves the fact that if you model this over time,
7 even some of the costs that are considered to be
8 the most common of all which is, you know, at the
9 executive level management of a company,
10 demonstrate a variation with output.

11 And there are -- I think it is well
12 understood that when you're dealing with joint
13 costs -- and there's a distinction between joint
14 costs and common costs by the way that's
15 understood in regulatory accounting -- then with
16 joint costs such as the cost to plan that is used
17 to carry the switch through a citizen's special
18 services. These costs are capacity driven. They
19 are -- they do vary with aggregate capacity. This
20 capacity can be identified and relationships can
21 be done. And this has been going on for a long
22 time.

1 So, yes, if you shut out the past and
2 shut out the future and take a single, static
3 point in time, which is perhaps, you know, what
4 you had in mind when you talked to your MBA
5 students, then you have a difficulty. But these
6 issues have come up. They've been addressed.
7 They've been addressed for a long time. We've
8 addressed them. Others have addressed them. And
9 many companies understand this as well.

10 MR. CARLTON: I disagree.

11 MR. TAYLOR: One quick second beating
12 the dead horse of ARMIS. You asked -- Jonathan
13 asked what I thought was a very good question
14 about whether these fully distributed costs in
15 ARMIS are more or less reliable than allocated
16 costs that we see in the rest of the world. I
17 would like to point out that at least the
18 allocated costs to special access are probably
19 less reliable than most. My evidence is internal.
20 It is -- if you look at company-wide ARMIS returns
21 from, say, 2000 to 2007 for all companies, those
22 are fairly reasonable. They follow the returns

1 themselves, though I don't believe them, are
2 fairly reasonable internal rates of return that
3 you'd expect for a company. They are not the
4 three-digit rates of return that Lee finds for one
5 particular product of this multi-product firm. So
6 the fact that the aggregate seems reasonable, but
7 looking at one product seems unreasonable, I think
8 is some evidence that there is something
9 specifically wrong with ARMIS among the family of
10 allocated costs.

11 MR. SELWYN: Or it could mean that
12 prices have been avoiding specific comparable
13 levels in that one category.

14 MR. BAKER: Go ahead. Bridger wants to
15 take the last right here.

16 MR. MITCHELL: I just wanted to ride a
17 different horse here to look at profitability and
18 market power in terms of long-run incremental
19 costs which, of course, is the standard that the
20 Commission established for network elements and
21 which many states have actually gone to the effort
22 of quantifying. Those costs include returns to

1 capital. They include the fixed costs of building
2 a new network. They're for an efficient
3 competitor who's entering the market. And they
4 basically measure what it takes to get in and
5 provide service in competition with the ILECs. So
6 they stand as a benchmark that I think is
7 independent of ARMIS, largely independent of the
8 cost allocation problems that plague a historical
9 firm dealing with historical cost accounting. And
10 the suggestion in this analytical framework is not
11 that prices should be exactly equal to long-run
12 marginal costs over market power, but rather that
13 this benchmark provides an important framework, a
14 reference point, for looking at market prices.

15 MR. CARLTON: I was -- there was -- I
16 believe in the 2000s -- okay -- I think in 2003 or
17 something there was a hearing about TELRIC -- I
18 submitted something on TELRIC. So I guess in part
19 I agree that TELRIC is much better than this
20 allocated common cost stuff. And in order to do
21 TELRIC, you specify in a sense the bundle of
22 services you're going to have. That gets around

1 the common cost allocation problem in a sense, and
2 then you do a calculation. The problem with
3 TELRIC, as I said in my testimony, is that first
4 there are conceptual problems with TELRIC. They
5 don't account for uncertainty in the future of
6 demand and, therefore, they don't account for
7 option value of investment. And then the second
8 is if you go across the states -- and what you
9 said is exactly right; the states implement this
10 -- I went across the states. It is astounding the
11 different depreciation rates the states use. They
12 differ -- I don't remember -- I think it was a
13 factor of ten. And, in fact, they got politically
14 involved in which state legislatures would say, "I
15 want you to use a delta of this number," you know,
16 in a state legislature. So I don't think TELRIC
17 pricing has proved to be a very reliable
18 indicator. Not only is it -- conceptually does it
19 have some economic difficulties, but in
20 feasibility I don't think it works out very well.

21 MR. BAKER: You know that -- do you have
22 any idea what the difference is between the rates

1 of return that are used in TELRIC calculations and
2 the hurdle rates the companies use that presumably
3 account for the option value of the investment
4 decision?

5 MR. CARLTON: I don't off the top of my
6 head, but like I say, the only -- what I remember
7 is the depreciation rates used differed by a
8 factor of 10 and that made an enormous difference
9 in the rates of return. But I don't recall off
10 the top of my head how different they are across
11 states.

12 MR. TAYLOR: One other element with
13 TELRIC is that even if it were calculated
14 perfectly correctly and its incremental costs --
15 and economists can understand it and decide
16 whether it's good or not -- you're left with the
17 issue of what is or should be the relationship
18 between price and this incremental cost. And that
19 is really what a competitive market tells you for
20 multi-product firms. Now I believe TELRIC says,
21 "Oh well, let's add 15 percent for common costs"
22 or something like that, but 15 percent is what

1 you'd tip a waiter. It's not necessarily what the
2 appropriate range between price and incremental
3 costs ought to be for a one-product firm.

4 MR. BAKER: And there's no way to figure
5 that out short of allowing the market to decide on
6 all prices and then we just see?

7 MR. TAYLOR: Well, I -- in my view,
8 that's quite correct, yes, that market price is
9 something which the process of competition is
10 going to tell you what the markup is going to be.

11 MR. BAKER: So it's never possible to
12 regulate anything using TELRIC? How far does this
13 argument go?

14 MR. TAYLOR: Well, I mean, it's possible
15 to assign incremental costs of an element, which
16 is not what we're talking about here, but as an
17 element, and require for the purpose of inducing
18 competition from people who would be otherwise
19 impaired if you didn't price it at that level, as
20 one very important view which is what was
21 happening when TELRIC was invented. That's very
22 different from saying, well, what is going to --

1 what would be the competitive market price of an
2 unbundled element or in this case of an element of
3 the one-third of a multi-product firm.

4 MR. BAKER: One more short one.

5 MR. SELWYN: We don't have a competitive
6 market, and we can't base this analysis on the
7 presumption that we do because then we end up with
8 circular reasoning. The point is we have to come
9 up with a set of benchmarks that presuppose we
10 don't have a competitive market. If it turns out
11 that the benchmarks demonstrate that we do have a
12 competitive market, so be it. But if you start
13 with the assumption that the market is
14 competitive, then you can't possibly reach a
15 correct conclusion.

16 MR. CARLTON: Okay. We're really
17 getting off. I've got to say something; otherwise
18 I think no one will be able to understand what a
19 benchmark study means. I interpreted what Bill
20 said at the outset -- he can correct me if I am
21 wrong. I mean simplifying -- take a place where
22 we think there's competition and then try and use

1 that observation to project after adjustments what
2 the price would be somewhere else where we don't
3 all agree is competition. That's what he's trying
4 to do. And in viewing those adjustments, he's
5 trying to do exactly what I think Lee was
6 suggesting. He's recognizing I'm not in a
7 competitive price. Can I use the benchmark to
8 determine it? If there are no benchmarks, you
9 know, let's go home. But that was the suggestion
10 and in doing the adjustments -- and this, I think,
11 is quite important. It's not just adjusting for
12 cost effects; it's also adjusting for demand
13 portfolio effects because that has to do with how
14 you would cover common costs.

15 MR. BAKER: All right. So we've got all
16 sorts of difficult empirical studies. We can
17 apply some about accounting and some about pricing
18 that we talked about today. And we're well over
19 into the final part of the conversation, but we
20 were just having too much fun to cut it off. So I
21 think I'll ask, see if Don has some questions to
22 start us off and then we'll also -- and maybe you

1 want to also ask when, you know, after some of the
2 questions we've gotten from the --

3 MR. STOCKDALE: Well, Don, why don't you
4 start with some of your questions about market
5 structure?

6 MR. BAKER: Oh, that's right, we should
7 do -- we haven't done the whole other area.
8 You're absolutely right. We're behind on that,
9 too. All right. I have a whole area on market
10 structure I wanted to talk about and I'd
11 forgotten; I had gotten so excited.

12 The -- so, this is for Dennis and Bill
13 to start out with about market structure. Suppose
14 what we want to do is define markets and analyze
15 market structure, notwithstanding, you know, all
16 the cautions we've heard about that in order to
17 evaluate possible market power. And suppose we
18 want to base market definition solely on demand so
19 that there's consideration. So if we're doing
20 that -- and I want to talk about product market
21 first. Should we be including in the same product
22 market wholesale services provided through all

1 types of special access lines, you know,
2 regardless of capacity and protocol and technology
3 and type of provider, or should we do something
4 different?

5 MR. TAYLOR: Well, I will take first
6 lick. The first lesson from my perspective is
7 let's look at what the data say. I mean, you've
8 jumped to shall we include DS3s in the same market
9 as DS1s, for example, or whatever. And I get very
10 nervous when we do merger guidelines type, this is
11 in and this is out, this sort of binary zero-one
12 decision in market definition, I think, distorts
13 the notion of the measure of competition that we
14 would get from the kind of quantitative,
15 data-driven, stuff that we're looking at.

16 MR. BAKER: But let me interrupt because
17 when we do this in, you know, antitrust context,
18 we don't always have -- or we're not always
19 relying on doing this kind of study that you're --
20 price study you're proposing. First, we, you
21 know, we sometimes would -- usually -- will do it
22 in other ways with other kinds of information.

1 MR. TAYLOR: I understand. One of the
2 disadvantages of doing that in a market like this
3 is that for some customers, fixed wireless is a
4 perfectly good substitute for high-capacity
5 special access, for others it isn't. And if
6 you're going to look over a geographic area and
7 find some customers of that sort, some customers
8 of this sort, and then draw a line and it says,
9 well, it doesn't quite reach X-percent so fixed
10 wireless is out of it. And that to me is not
11 telling you about what the competitive constraints
12 are in that geographic market because you're
13 ignoring the fact that some customers find it to
14 be a perfectly satisfactory substitute.

15 MR. BAKER: So if all customers aren't
16 identical, we can't define markets?

17 MR. TAYLOR: Defining markets the way
18 that you spoke of, of taking products and either
19 sticking them 100 percent in or 100 percent out, I
20 think, is distorting the competitive data in a way
21 that we would not do if we were doing the sort of
22 market definition that we're talking about here.

1 It's sort of like the differentiated product
2 market definition issues in antitrust.

3 MR. BAKER: So it's not possible to
4 decide whether cola is a product market because --
5 rather than all soft drinks because the products
6 are differentiated? And some customers might view
7 lemon-lime as a substitute for cola and others
8 won't?

9 MR. TAYLOR: If you do the exercise,
10 you'll find no matter how you cut that market that
11 when you increase the price of one, the price of
12 another is affected to some degree whether or not
13 it's "in the market." And then to take those that
14 you've decided are in the market and ignoring
15 those that are out and do market shares and, you
16 know, that sort of thing on those that are in the
17 market is throwing away information. That's my
18 only point.

19 MR. BAKER: Yes, it's throwing away
20 information. I'll agree with that, but isn't it
21 useful to look at the information that's with -- I
22 mean, sometimes it's analytically helpful to

1 define markets anyway even though you're throwing
2 away information?

3 MR. TAYLOR: I don't find it in these
4 markets particularly helpful. I mean, the
5 difficulty -- another difficulty, let me say, is
6 take fixed wireless. A question you might ask is,
7 you know, is fixed wireless in the high-capacity
8 market? Well, I don't know. What happens if we
9 raise the price of high-capacity wire line
10 services? What happens if people shift to fixed
11 wireless? And dealing with this one product at a
12 time; I mean, first fixed wireless, then we'll do
13 cable, then we'll do other substitutes, whatever
14 they are, also tells you the wrong answer in the
15 sense that -- that is the answer at the end
16 whether the ILEC has market power or not because
17 the ILEC faces competition from all of them, not
18 just from each of them seriatim. I think if you
19 go back to the raw theory of setting markets, it's
20 not one substitute at a time that you do this
21 exercise for, but it's all combinations of stuff
22 to do.

1 MR. BAKER: But somehow we manage to
2 decide whether the market is soft drinks or
3 whether it also includes juice and also includes
4 beer and wine. I mean, somehow we manage to get
5 around this problem even without the price study
6 that you suppose we have to do in order to analyze
7 a problem in, you know, an antitrust context.

8 MR. TAYLOR: Yes, I understand that you
9 do. I guess it's my complaint that in
10 telecommunications and in special access that
11 you're going to run into trouble when you do that.

12 MR. BAKER: And so you would give the
13 same answer with -- I want to ask the same kind of
14 question with respect to a geographic market, that
15 if we're thinking only about demand substitution
16 considerations, should we be, you know -- how do
17 the following possible markets sound? You know,
18 each building in which a channel termination
19 customer is located, each cell tower in which a
20 backhaul channel termination customer is located,
21 each pair of wire centers served by interoffice
22 transport -- you know, would those be appropriate

1 geographic markets? Or if not, do we go more
2 broadly? How do we answer that question then?

3 MR. TAYLOR: Well, I will take a shot to
4 begin with. The Commission's habit in those cases
5 is to define the geographic market very narrowly,
6 building point to point, things like that. And
7 then to say for similarly situated buildings and
8 similarly situated points to points, we will
9 combine them and analyze them as a market. So
10 that makes it -- makes the market on which you're
11 doing work larger than a point-to-point market and
12 larger than a building.

13 MR. BAKER: Right. You're not endorsing
14 the Commission's habit as the appropriate
15 methodological approach?

16 MR. TAYLOR: Well, I have to say, I have
17 not given the thought to -- the same issue that
18 bothers me for product market I haven't given the
19 thought to what its analog is in a geographic
20 context. It probably would bother me if I had
21 thought it out, thought it through.

22 MR. BAKER: Well, then my final area

1 here is about how to compute market shares. So
2 let's suppose that we've somehow, notwithstanding
3 all the methodological problems involved, picked
4 something and called it a product market and
5 picked something else and called it a geographic
6 market. So we have a market. And now we decide
7 we want to rely -- we want to look at market
8 shares. So here's a proposal to react to, just to
9 clarify the, you know, the conversation. You
10 know, when I make these proposals, I'm not trying
11 to say that this is what we're doing. This is
12 just -- okay. So suppose the computed market
13 shares, based on ownership of facilities that are
14 capable of serving the buildings within an area --
15 in other words, a measure of capacity, you know,
16 rather than a measure of sales like buildings and
17 who leases them. Those are two pieces of my
18 proposal. So how do you react to that as a basis
19 for computing market shares?

20 MR. TAYLOR: Well, I think my answer
21 would be why don't we look at the data and see
22 what happens for different levels of market share

1 the way you've calculated: Market share based on
2 revenue, market share based on whatever the other
3 reason -- circuits perhaps -- the other reasonable
4 alternatives. And see across wire centers which
5 are associated with high prices, which are
6 associated with low prices, as you hold constant
7 all the other elements.

8 MR. BAKER: And what are the factors
9 that might tend to lead the -- okay, how to put
10 this. The -- so, yes, the data might tell us one
11 thing and it might tell us the other. What is it
12 about the world that might lead the data to tell
13 us that this is a good market definition and what
14 about in the world might lead us to tell us that
15 no, we should do something different, building
16 counts or, say, or broader areas? I don't know if
17 I've asked that well, but try it.

18 MR. TAYLOR: Well, all I can do is come
19 back to predictability. That is, if the measure
20 that you have is well associated with the presence
21 of a price above a competitive level -- which
22 we've ascertained in this benchmark study -- or

1 below, it's associated with changes in prices, I
2 think we've got a pretty good measure.

3 MR. BAKER: So without that kind of a
4 measure, you have no basis for saying that let's
5 say building counts -- someone might say,
6 "Building counts mislead because they don't take
7 into account potential competition, whereas
8 capacity measures might take into account
9 potential competition and it might be better for
10 that reason." You have no basis for making any
11 kind of statements like that, absent the empirical
12 analysis?

13 MR. TAYLOR: (inaudible) statements like
14 that, as has everyone else on both sides of this
15 issue for a long period of time. And the
16 difficulty is it doesn't resolve anything. Yes, I
17 can see -- I can give you arguments why capacity
18 makes sense. I can give you why -- arguments why
19 share of business inability make sense, why share
20 of capacity within X-feet of a building make
21 sense, and I'm sure Lee and Bridger can give you
22 the opposite arguments. But then at the end of

1 the day, with just those qualitative arguments,
2 you are left with trying to decide what the right
3 answer is in some defensible, objective way. And
4 the history in this docket, I think, has been
5 that's very unsatisfactory to everybody as
6 compared with a measure which is based on
7 predictability and is objective in the sense of
8 the number.

9 MR. BAKER: And if we were doing merger
10 analysis about products other than
11 telecommunications, you'd feel the same way?
12 Well, if we were -- I'm just thinking applying the
13 merger guidelines. If we were doing antitrust
14 analysis and we were discussing products not
15 involving -- if we were back in soft drinks and
16 beer and things like that, would you feel as
17 though you have no basis for choosing any units
18 for measuring market shares unless you did an
19 empirical study?

20 MR. TAYLOR: No, there are big
21 differences. In consumer products, for example,
22 beer and soft drinks is easy. You've got register

1 tapes. You've got all sorts of variation in
2 prices. You've got numbers for the types of soft
3 drink -- skill numbers, SKUs or whatever -- stock
4 keeping unit, exactly. I mean, you can do that to
5 a fare-thee-well. You can measure econometrically
6 at a given point in time, price elasticities and
7 cost elasticities. That's a very different world
8 from the one we have here.

9 MR. BAKER: So you're saying it's easier
10 to do antitrust analysis in our world because you
11 can measure better, or are you saying it's easier
12 to determine the units on which to calculate
13 market shares because it's possible to do the
14 price study that you have in mind there?

15 MR. TAYLOR: Well, I guess it's the
16 latter, that you can identify prices and variation
17 in prices. You can identify entrants, you can
18 identify competitors. It's perhaps more easy to
19 identify potential competitors without network
20 effects and all of that. It's a qualitatively
21 different animal.

22 MR. BAKER: Well, why don't I shift over

1 to Bridger and Lee and see what you'd like to say
2 about any of these questions about what
3 appropriate markets are and how to measure market
4 shares.

5 MR. MITCHELL: Right. Well, I think
6 we're more on the side of the questions as you've
7 posed them with regard to market definitions, that
8 SNIP tests and the Merger Guidelines do provide a
9 sensible basis for distinguishing products and
10 areas that are in one market and not in another.
11 And that with respect, for example, through fixed
12 wireless, one can look at customer decisions and
13 investments where customers have made those
14 substitutions for fixed wireless as distinct from
15 subscribing to special access, and then ask in
16 that market, "Is that a sufficient degree of
17 substitution to have affected what the price would
18 be if the market were supplied entirely by one
19 firm?" And the -- that's another answer that
20 needs to be had about the preliminary evidence
21 from the data. That not only is generally not and
22 the major suppliers of special access are not

1 turning to fixed wireless for their supply of
2 backhaul.

3 MR. BAKER: Lee, did you want to add
4 anything?

5 MR. SELWYN: Let me, you know, focus on
6 a couple of areas. Let me first talk about
7 product markets. You raised the issue of soft
8 drinks and whether cola and lemon-lime soda or
9 beer, you know, are different markets when doing
10 an analysis. Here it isn't even that complicated.
11 Let me give you some analogies. If we think of
12 DS0 as, say, being analogous of bicycles, DS1
13 being analogous of cars, and DS3 being analogous
14 to buses, and OC3 as being analogous, let's say,
15 to 18-wheelers, and OC96 as being analogous to
16 ocean liners. These are obviously distinct
17 product markets. There's no cross elasticity.
18 There's no real substitution. It's based on the
19 demand that's out there. To suggest that they all
20 should be lumped into one product market makes
21 absolutely no -- it doesn't make any more sense
22 than putting bicycles and ocean liners in the same

1 market.

2 Another distinction that could be made
3 is between wholesale and retail markets. And this
4 goes to the issue of whether or not, for example,
5 that we should only consider Type 1 penetration in
6 terms of market share. We do not have a
7 competitive wholesale market right now, so that
8 although competitors are offering Type 1 and Type
9 2 services, their involvement in Type 2 services
10 is really more for the purpose of making their
11 Type 1 services more marketable, more valuable to
12 their customers. They're confronted with a price
13 war from the incumbent. If we actually had a
14 wholesale market where the prices were set on the
15 basis of long-running incremental costs, then
16 analogous to what the Congress had in mind with
17 respect to the UNIs, for example, we could
18 actually distinguish between wholesale market
19 shares and retail market shares. And we could
20 include at the retail level all of the retail
21 sales, including the retail sales that were based
22 on the provision of service using ILEC facilities.

1 And this has been something that certainly was
2 being done in the context of, for example,
3 residential and small business exchange services
4 in the time when UniP was available.

5 In the present situation, we don't have
6 a competitive wholesale market with the underlying
7 services and, therefore, it really is not possible
8 to view the retail market as including the share
9 of Type 2 services. So I think that in looking at
10 market shares, we have to focus on Type 1
11 facilities both for CLEC and for ILEC. And CLEC
12 Type 1 shares are extremely, extremely small.
13 And, you know, I was interested in Dennis' comment
14 about New York being only in Phase 1 of pricing
15 flexibility, and he's absolutely right. And
16 interestingly enough, places like Binghamton are
17 in Phase 2. And to me that sort of underscores
18 the fallacy of the triggers rather than much of
19 anything else because the reason this happens is
20 there are few wire centers in the smaller markets
21 so it's easier to get to the threshold percentage
22 than in the larger markets. It has nothing to do

1 with the level of competition.

2 When we look at the geographic market,
3 this is where it gets a little messy because
4 there's no question. If I'm in a building that
5 doesn't have a competitor, and the competitors are
6 not seeing their way clear to come into that
7 building, as far as I'm concerned the CLEC share
8 is zero and the ILEC share is 100 percent. And we
9 can aggregate it at the wire center level for
10 analytical purposes, and I don't suggest that that
11 not be done because it kind of makes sense to do
12 that. But you have to interpret the share results
13 very carefully because if we conclude, for
14 example, that only 4 percent of the buildings in a
15 wire center are lit, that tells you that 96
16 percent of the customers, potential customers, in
17 that district do not confront comparative choices.
18 And what's going to drive the decision as to --
19 the policy decision -- is a combination of that
20 fact and a recognition that competitors confront
21 extremely low supply elasticity. And they're not
22 going to be able to rapidly respond and enter

1 those buildings in response to a high price or a
2 price increase on the part of the incumbent.

3 So, yes, we want to look at the data at
4 the wire center level because we need to have some
5 basis to collect it and examine it. But clearly
6 that by itself is not dispositive, whether the
7 share is 5 percent or 10 percent or 15 percent. I
8 don't think you'll ever find any remotely that
9 high. That still tells you that you have an
10 enormous segment of the market that has no
11 competition whatsoever.

12 MR. BAKER: You talked about the shares
13 of -- what was it, you said a certain percent --
14 96 percent of the buildings are lit in certain
15 areas or something like that, and as a way of
16 inferring market power. That sounds like -- I'm
17 sorry?

18 MR. SELWYN: I said 96 percent were
19 unlit.

20 MR. BAKER: Ninety-six percent are
21 unlit.

22 MR. SELWYN: Unlit by competitors.

1 MR. BAKER: I'm sorry, 96 are unlit by
2 competitors.

3 MR. SELWYN: Right, which means --

4 MR. BAKER: Ninety-six percent of those
5 that are lit by incumbents are unlit by
6 competitors.

7 MR. SELWYN: Right, something like that.

8 MR. BAKER: And so that's a statistic
9 that doesn't take into account potential
10 competition, correct? And is that a problem with
11 it?

12 MR. SELWYN: Look, potential competition
13 is a very legitimate consideration, and no where
14 have I suggested that it isn't. But this is why
15 I've been emphasizing supply elasticity because
16 supply elasticity is a quantitative means of
17 assessing potential competition. If you have
18 high-supply elasticity either in the same product
19 market or in a substitute product market where
20 there's high-cost elasticity between the two
21 markets such as, for example, by fixed wireless --
22 I'm positing. I don't know that this is the case

1 -- supposing there were high-cost elasticity
2 between fixed wireless and wire line, but both
3 confront very low supply elasticity. That -- you
4 can't conclude that wireless represents a
5 competitive challenge -- price constraining
6 competitive challenge. So we have to -- openly at
7 the end of the day you have to be focusing on
8 price elasticity -- I'm sorry, on supply
9 elasticity -- in all of the candidate product
10 markets. And the way I've approached -- and I
11 believe the Commission should approach -- the
12 issue of potential competition is by focusing on
13 cross elasticity which the Commission has examined
14 and supply elasticity which has thus far gotten
15 very limited attention because that's where you
16 have a basis, a quantitative basis, for assessing
17 potential competition.

18 MR. BAKER: Would capacity shares
19 capture the relevant supply elasticity that you're
20 worried about? In other words, if you asked -- if
21 you gave a firm's shares based on the -- not their
22 actual sales to buildings, but their capacity to

1 serve them? Or would that overstate the
2 competitiveness of the rivals or would it properly
3 account for supply elasticity?

4 MR. SELWYN: Well, I'm not sure what you
5 mean by capacity of shares.

6 MR. BAKER: Well, so suppose we looked
7 at who owned a fiber ring nearby that they could
8 connect to or had, you know, nearby cable
9 facilities, you know, and sort of said, all right,
10 well those firms are potentially able to serve
11 this building.

12 MR. SELWYN: There's a multipart test
13 here. As I've said before, if they're not
14 proximate geographically, then they're not even
15 potential competitors. If they are proximate to
16 the point where some -- where the construction of
17 a lateral is feasible, then we're still dealing
18 with the investment and time and capital resource
19 capacities associated with providing a lateral.
20 So, you know, the first step in the process is
21 identify those buildings where, at least at a
22 theoretical level, entry might be viably examined.

1 I'm willing to go beyond that. Then look to the
2 question of, you know, supposing in a given market
3 you find that there are a thousand such buildings
4 based on some proximity measure of the type that
5 Bill has been suggesting, but in a given year,
6 given the capital resources of the competitor,
7 only 20 of those buildings could as a practical
8 matter be built out. That's what's relevant. The
9 other, you know, however many other 980 buildings,
10 you know, are not near-term potential competitors.

11 MR. BAKER: All right. So in light of
12 the time, we're just going to jump onto the -- you
13 know, our final area and let Don ask some
14 additional questions. And we'll have some
15 questions -- just not an area -- our further
16 questions from both the panelists and from the
17 audience as well. So we're going to include some
18 questions from -- that we've received as well.

19 MR. CARLTON: I want to make one comment
20 on the last set of questions because I didn't say
21 anything. I'll be brief. We were talking about
22 the Merger Guidelines and using market definition

1 and market shares. The Merger Guidelines are
2 clear that market definition is crude in the
3 beginning, and the new proposed Merger Guidelines
4 have an entire section devoted to empirical
5 analysis. And, therefore, the way to figure out
6 what the right market -- should I include this,
7 should I include potential competition, does
8 potential competition matter -- is to look. And
9 this is what the guidelines say at the empirical
10 analysis. And that's what I interpreted the
11 benchmark studies to be suggesting and in the
12 absence of that, I don't think you can just look
13 back and say, "I think this matters," or someone
14 say, "Nay, I think it doesn't." I think the real
15 question here is can you show me some data where
16 it does matter, where it doesn't. I don't care
17 what you think. I understand it's maybe based on
18 good qualitative discussions with people. I don't
19 doubt that, but I want some evidence that this
20 really matters, and it's really -- the proof is in
21 the pudding, it seems to me.

22 MR. BAKER: But just to be clear, am I

1 right that the proposed new Merger Guidelines are
2 not, officially yet, also required to finding
3 markets in every case. Isn't that correct?

4 MR. CARLTON: Yes. I think it's a good
5 -- well, it's a debate and they're moving away
6 from market definition. I won't get into -- you
7 can read my remarks, what I said about it. I
8 actually think it's good to define markets. It's
9 a good discipline. It is, though, still a crude
10 first step and an empirical-based analysis,
11 starting from market definition, is perfectly
12 appropriate. And that is what I interpret these
13 benchmark studies to be, exactly that those next
14 steps that are required in order to make sure
15 you're not making huge errors by just relying on
16 qualitative information that you have no way of
17 confirming are good to rely on.

18 MR. STOCKDALE: I have one question of
19 my own and at least two from somewhere in the
20 audience or in the Internet audience. My question
21 is, ignoring for -- and I'll direct this to Dr.
22 Taylor. You raise some issues about the

1 difficulty in defining relevant product markets
2 that distinguish between DS1 and DS3. Conceding
3 that, what do you -- do you think that it is
4 reasonable when we're analyzing competition and
5 the special access markets, to distinguish between
6 channel terms and interoffice transport?

7 MR. TAYLOR: Yes.

8 MR. STOCKDALE: Okay. That's my
9 question. Now, here are two from the audience,
10 and I'll just read the first one, so I'm reading
11 it word for word.

12 MR. TAYLOR: Whoever hits the button
13 first answers?

14 MR. STOCKDALE: Well, I think it's going
15 to be directed to you, but I just wanted to make
16 clear that it's not my words that I'm repeating
17 here. "It seems the ILEC proposal is not
18 workable" -- I assume benchmarking proposal --
19 "because of where we start. ILEC price on a
20 MSA-wide basis, so how can FCC measure the
21 effective competition on price? Even if a few
22 wire centers may be very competitive and all the

1 rest in the MSA are not, how could the FCC do the
2 quantitative analysis suggested?"

3 MR. TAYLOR: Well, I think I disagree
4 with the premise that prices are constant across
5 wire centers in an MSA. That's -- I mean, I
6 imagine if you looked at average revenue per unit
7 in wire centers across an MSA, you would find
8 differences. That's my function.

9 MR. STOCKDALE: Let me follow up then a
10 little bit on this. Average revenue per unit may
11 differ from MSA to MSA or from wire center to wire
12 center, but the prices that a particular customer
13 faces do not. And so it seems to me that you need
14 to sort of distinguish the mix of customers in a
15 particular wire center and the prices they face.
16 And it isn't clear to me that if it's just because
17 you have a bunch of IBMs in one case that qualify
18 for an 80 percent discount and a bunch of dry
19 cleaners in another case that don't qualify for
20 any volume discount, we should be drawing any
21 conclusions about the competitiveness of the
22 market. Should we?

1 MR. TAYLOR: Well, it's certainly the
2 case that we, as we said, that you have to control
3 for, among other things, the characteristics of
4 customers. So we're having to hold that constant.
5 Where the variation comes, if there is no
6 variation across customers, I have to think about
7 it; I mean, that's a difficult assertion.

8 MR. STOCKDALE: Dr. Selwyn, do you want
9 to say --

10 MR. SELWYN: I'll just make one
11 observation. You know, this is not the
12 distinction between the dry cleaners at one end of
13 the market and the IBMs at the other because
14 large-enterprise customers have very substantial
15 demand for service at the DS1 level or at
16 potentially down the road at relatively low-volume
17 Ethernet, if that market ever begins to become
18 more readily available. You know, a bank with
19 thousands of branches is not -- does not require
20 -- it's got branches in strip malls and it's got
21 ATMs and it's got small branches on suburban
22 streets and towns, and all of those require a

1 service at something approximating the DS1 level.
2 Cell sites are another situation. They're all
3 over the place and for many, that's the level of
4 capacity that is potentially required. So you
5 have to focus not just -- this is not the big guys
6 always having competitive choices and the dry
7 cleaners never having them. This is a case where
8 the big guys have competitive choices in a few
9 locations and no competitive choices in the vast
10 majority of their locations.

11 MR. CARLTON: I'll have to go back and
12 check. My understanding is that, you know,
13 holding everything constant, say in a Phase 2
14 area, or it's not true that the price to a
15 building is constant across the geography. But --
16 so you will get some price variation. But putting
17 that aside, which I think is what Bill said, but
18 putting that aside, it raises the possibility that
19 you might want to collect some data from the CLEC
20 as to what prices they're charging because they're
21 not under any such, you know, filing obligations
22 as I understand it, to see whether you can get any

1 information from the variation in their prices for
2 special access and whether that gives you any
3 information. That's something that we've not
4 talked about, but that's at least something to
5 think about.

6 MR. STOCKDALE: Would that be a possible
7 metric for a competitive price as well?

8 MR. CARLTON: Well, in terms of the
9 benchmark study that Bill was talking about, I'm
10 not sure that I would necessarily conclude that
11 whatever CLEC is charging is competitive. What I
12 would assume is that the variation in the CLEC
13 prices across areas you might want to relate to
14 levels of competition. That was my only point,
15 that there's information in the CLEC data that
16 we've not really talked about today.

17 MR. SELWYN: If this market were
18 competitive, then the ILECs would be responding to
19 those competitive CLEC prices and the kind of data
20 that's being suggested wouldn't even be necessary.
21 The reason that they're asking for it is because
22 obviously they're not responding to it, and you

1 can't -- the CLEC prices aren't probative. As a
2 general matter, if they're Type 2 prices, they're
3 certainly not probative because they're using the
4 incumbent's prices are for. And with respect to
5 Type 1 prices, those have to in part recover the
6 costs of perhaps not making any money on the Type
7 2 services. These are not competitive markets.
8 Those prices have no particular meaning. And if
9 they were competitive, ILEC wouldn't have to ask
10 for it.

11 MR. CARLTON: Wait a minute. I think
12 maybe you didn't -- you weren't listening to my --
13 what I answered. The variation in the CLEC
14 pricing contained information it seems to me about
15 the effect of competition, if the level of
16 competition varies across markets that they're
17 competing in, period.

18 MR. SELWYN: Or it might be based on the
19 proportion in any given -- large geographic market
20 of the amount of Type 2 services they have to
21 provide in order to be competitive.

22 MR. CARLTON: I agree that the Type --

1 the Type 2 point you have to be in separately, but
2 let's just keep it clean. You've still got the
3 Type 1s. There's no question that the variation
4 in CLEC pricing is telling you something.

5 MR. SELWYN: You can't just look at the
6 Type 1s, that's my point. You have to look at the
7 total network that they're -- the total package of
8 services they're providing. They may not be able
9 to cut the price of Type 1s if they're forced to
10 buy a lot of Type 2s in a given market, and there
11 are a lot of factors that go into the pricing,
12 into a CLEC's pricing, in any given market, and
13 you can't take the Type 1s in isolation.

14 MR. STOCKDALE: One last question from
15 the audience. And there some others, but we're
16 running out of time. And it follows up from the
17 discussion we were just having. The questioner
18 basically asked about, "How our analysis should
19 address the phenomenon of multi-location
20 customers, both for purposes of market definition
21 and for assessing competition." And so if the
22 panelists can offer their thoughts, that would be

1 useful.

2 MR. SELWYN: Well, this was a specific
3 subject of my declaration back in January, so let
4 me take a shot at it. You know, the point is --
5 and I think I've made this point several times
6 today, so I don't want to just repeat it again --
7 but the multi-location customer places a great
8 deal of value on having a sole source provided who
9 takes full responsibility for managing the network
10 and interconnecting all of its components. So in
11 order to compete, that provider has to be capable
12 of offering service -- it could be Type 1 or Type
13 2 -- at each of that customer's locations. And
14 so, you know, this gets us back to the geographic
15 market being an individual building, and in the
16 case of multi-location customers, the collection
17 of the buildings that that particular customer
18 requires service at. And unless there is some
19 economically feasible way for the provider to
20 serve all of that customer's locations, they're
21 out of the market. So it is both the individual
22 building and the collection of buildings.

1 MR. STOCKDALE: Drs. Carlton and Taylor,
2 do you want to say anything?

3 MR. CARLTON: You know, my
4 understanding, when Bill was describing the
5 examples of the benchmarks and that you had to
6 adjust for everything, that one of the things he
7 was going -- either explicitly or implicitly -- he
8 was going to adjust for is the different
9 characteristics of the customers, as well as I
10 think the different domain characteristics of the
11 environment in which the ILEC is operating, the
12 different domain characters. That's it.

13 MR. BAKER: All right. Well, according
14 to my watch, we have gone only one minute later
15 than the scheduled time.

16 And I think we want to thank our
17 panelists not just for keeping us to time, but for
18 a riveting session. So thank -- so I hope you'll
19 join me in thanking Lee Selwyn, Bridger Mitchell,
20 Bill Taylor, Dennis Carlton, and thank all of you
21 for joining us today. (Applause)

22 * * * * *

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